

82690

Delaval, Jan

From: Roark, Jessica
Sent: Wednesday, December 18, 2002 2:30 PM
To: Delaval, Jan
Subject: alignments

Jan,

Would you please align GenBank AB014553.1 (GI:3327119) with the following sequences from 09/728,420?

A pairwise alignment would be great between AB014553.1 and each of

SEQ ID NO:6,
SEQ ID NO:11 and
SEQ ID NO:16.

Thanks!

Jessica H. Roark

CM1 8A03
Mailbox 9E12
Art Unit 1644
703 605-1209

Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
CM1 1E07 - 703-308-4498
jan.delaval@uspto.gov

82586

Delaval, Jan

From: Roark, Jessica
Sent: Wednesday, December 18, 2002 7:04 AM
To: Delaval, Jan
Subject: 09/728,420

Jan,

Please search (if you haven't already) only against the PGPub database the following from 09/728,420:

SEQ ID NO:7,
SEQ ID NO:12 and
SEQ ID NO:13.

Results on paper please.

Thanks!

Jessica H. Roark

CM1 8A03
Mailbox 9E12
Art Unit 1644
703 605-1209

Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
CM1 1E07 – 703-308-4498
jan.delaval@uspto.gov


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; Entered [jdelaval 18-Dec-02 16:41]
SE011

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SEOL TLOS

[illegible]

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; Entered [jdelaval 18-Dec-02 16:41]
SEQ16

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SEQ16

[illegible]

[illegible]

AB014553 1240 tcacactgcgatatgggattttcccaacatgcacagaagcagagagtgctagaccccc
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SEQ11 865
SEQ16 1099
AB014553 1301 gcgctcccccagctgcacagccccgaacaggggtgtccaaggcgggtccaaggcaaccggtccca
consensus gcgctcccccagctgcacagccccgaacaggggtgtccaaggcgggtccaaggcaaccggtccca
SEQ6 967
SEQ11 865
SEQ16 1099
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consensus gcccccacatgggggtgtcccgagagtggtgtccaaggcaaccggtcccccgtgggggtgtcca
SEQ6 967
SEQ11 865
SEQ16 1099
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SEQ6 967
SEQ11 865
SEQ16 1099
AB014553 1484 ggcgcacagcccccaatgggggtgtcccgaggtgtgtccaaggcaaccggtcccccgtggg
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SEQ6 967
SEQ11 865
SEQ16 1099
AB014553 1545 gtgtccaaggcgggtccagggcaaccggtcccccagccccgtgggggtgtcccgagcgggtccg
consensus gtgtccaaggcgggtccagggcaaccggtcccccagccccgtgggggtgtcccgagcgggtccg
SEQ6 967
SEQ11 865
SEQ16 1099
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consensus ggcacacgcacagctctctctgtgtggcagcacaacctctgcagctctcggttgcacctcagttcc
SEQ6 967

SEQ11 865
SEQ16 1099
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SEQ16 1099
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SEQ11 865
SEQ16 1099
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SEQ6 967
SEQ11 865
SEQ16 1099
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SEQ16 1099
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SEQ6 967
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SEQ6 967
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SEQ6 967
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SEQ16 1244
AB014553 3009 cgtgtccccaagatgtcctgtgagcagcaggtataggtgtcatgtgagagaggtatcaacctgtgtggcacaca
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SEQ6 967
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SEQ6 967
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SEQ6 967
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SEQ16 1244
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SEQ11 865
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SEQ16 1254
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SEQ11 865
SEQ16 1254
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SEQ6 967
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SEQ16 1254
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SEQ6 967
SEQ11 865
SEQ16 1254
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SEQ6 967
SEQ11 865

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SEQ6 967
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SEQ6 967
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SEQ16 1254
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SEQ6 967
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SEQ16 1254
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SEQ6 967
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SEQ6 967
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SEQ16 1254
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SEQ6 967
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Alignment score = -50460.00
Scoring matrix:

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1  -16657-16606-14830
2      -91 -1532
3      -1286
4
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1150 1160 1170 1180 1190 1200 1210
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1220 1230 1240 1250 1260 1270
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2. ab014553 (1-4358)
US-09-728-420C-1 Sequence 11, Application US/09728420C
Sequence 11, Application US/09728420C
GENERAL INFORMATION:
APPLICANT: Yoshinaga, Steven K.
APPLICANT: Mak, Tak Wah
APPLICANT: Shahinian, Arda
APPLICANT: Trafuri Bladt, Anna
APPLICANT: Senaldi, Giorgio
TITLE OF INVENTION: Novel Polypeptides Involved in Immune Response
FILE REFERENCE: 6843.0050-02
CURRENT APPLICATION NUMBER: US/09/728,420C
CURRENT FILING DATE: 2000-11-28

|||||
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2090 2100 2110 2120 2130 2140 2150
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2230
TGAGAGCCAGGTG

2. ab014553 (1-4358)
US-09-728-420C-1 Sequence 11, Application US/09728420C
Sequence 11, Application US/09728420C
GENERAL INFORMATION:
APPLICANT: Yoshinaga, Steven K.
APPLICANT: Mak, Tak Wah
APPLICANT: Shahinian, Arda
APPLICANT: Trafuri Bladt, Anna
APPLICANT: Senaldi, Giorgio
TITLE OF INVENTION: Novel Polypeptides Involved in Immune Response
FILE REFERENCE: 6843.0050-02
CURRENT APPLICATION NUMBER: US/09/728,420C
CURRENT FILING DATE: 2000-11-28

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PRIORITY APPLICATION NUMBER: PCT/US00/01871
PRIORITY FILING DATE: 2000-01-27
PRIORITY APPLICATION NUMBER: US 09/264,527
PRIORITY FILING DATE: 1999-03-08
PRIORITY APPLICATION NUMBER: US 09/244,448
PRIORITY FILING DATE: 1999-02-03
NUMBER OF SEQ ID NOS: 39
SOFTWARE: PatentIn version 3.1
SEQ ID NO 11
LENGTH: 864
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (1)..(864)
OTHER INFORMATION:

Initial Score = 864 Optimized Score = 864 Significance = 0.31
Residue Identity = 100% Matches = 864 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

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      2530        2540        2550        2560        2570        2580        2590
GCGGCTTACCGGAACCGAACCCCTGATGTGACCGGCGGAGTGTGCGGCGGACGACTTCTCCCTGCGCTTTTCA
      2600        2610        2620        2630        2640        2650        2660
GCGGCTTACCGGAACCGAACCCCTGATGTGACCGGCGGAGTGTGCGGCGGACGACTTCTCCCTGCGCTTTTCA
      2670        2680        2690        2700        2710        2720        2730
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      2740        2750        2760        2770        2780        2790        2800
GCGGCTTACCGGAACCGAACCCCTGATGTGACCGGCGGAGTGTGCGGCGGACGACTTCTCCCTGCGCTTTTCA
      2810        2820        2830        2840        2850        2860        2870
GCGGCTTACCGGAACCGAACCCCTGATGTGACCGGCGGAGTGTGCGGCGGACGACTTCTCCCTGCGCTTTTCA
      2880        2890        2900        2910        2920        2930        2940
GCGGCTTACCGGAACCGAACCCCTGATGTGACCGGCGGAGTGTGCGGCGGACGACTTCTCCCTGCGCTTTTCA
      2950        2960        2970        2980        2990        3000        3010
GCGGCTTACCGGAACCGAACCCCTGATGTGACCGGCGGAGTGTGCGGCGGACGACTTCTCCCTGCGCTTTTCA
      3020        3030        3040        3050        3060        3070        3080
GCGGCTTACCGGAACCGAACCCCTGATGTGACCGGCGGAGTGTGCGGCGGACGACTTCTCCCTGCGCTTTTCA
      3090        3100        3110        3120        3130        3140        3150
GCGGCTTACCGGAACCGAACCCCTGATGTGACCGGCGGAGTGTGCGGCGGACGACTTCTCCCTGCGCTTTTCA
      3160        3170        3180        3190        3200        3210        32
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3. ab014553 (1-4358)

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1790 1800 1810 1820 1830 1840 1850
GCTCCCGCCATGGGCGAGATCCCTCCGAGCCCTGTTGTGGCCGCGCAGAGAAAGGGTTCCCGGGGACAG
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2010 2020
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OM protein - protein search, using sw model

Run on: December 18, 2002, 07:06:12 ; Search time 51.7697 Seconds
(without alignments)
104.267 Million cell updates/sec

Title: US-09-728-420C-7

Perfect score: 1687

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Scoring table: BLOSUM62

Searched: 106657 seqs, 16763532 residues

Total number of hits satisfying chosen parameters: 106657

Minimum DB seq length: 0'

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database :

Published Applications_AA:*
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14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	1687	100.0	322	10 US-09-910-174A-29	Sequence 29, Appl
2	600.5	35.6	302	10 US-09-789-561-136	Sequence 136, App
3	600.5	35.6	344	10 US-09-764-853-812	Sequence 812, App
4	599.5	35.5	302	9 US-09-896-738-13	Sequence 13, Appl
5	599.5	35.5	302	10 US-09-955-866-7	Sequence 7, Appl
6	598.5	35.5	302	9 US-09-915-789A-18	Sequence 18, Appl
7	598.5	35.5	343	10 US-09-764-853-630	Sequence 630, App
8	598.5	35.5	345	10 US-09-764-853-810	Sequence 810, App
9	594.5	35.2	309	10 US-09-910-174A-7	Sequence 7, Appl
10	550.5	32.6	241	9 US-09-915-789A-11	Sequence 11, Appl
11	249	14.8	316	10 US-09-789-561-135	Sequence 135, App
12	247	14.6	316	9 US-09-978-285A-137	Sequence 137, App
13	247	14.6	316	9 US-09-896-738-14	Sequence 14, Appl
14	247	14.6	316	9 US-09-978-697-137	Sequence 137, App
15	247	14.6	316	9 US-09-978-192A-137	Sequence 137, App
16	247	14.6	316	10 US-09-875-338-11	Sequence 11, Appl
17	247	14.6	316	10 US-09-955-866-8	Sequence 8, Appl
18	247	14.6	316	12 US-10-052-586-54	Sequence 54, Appl
19	246	14.6	316	9 US-09-915-789A-1	Sequence 1, Appl

20	246	14.6	316	10 US-09-875-338-13	Sequence 13, Appl
21	246	14.6	316	10 US-09-910-174A-24	Sequence 24, Appl
22	245	14.5	316	9 US-09-915-789A-3	Sequence 3, Appl
23	241.5	14.3	534	10 US-09-875-338-7	Sequence 7, Appl
24	241	14.3	698	10 US-09-875-338-9	Sequence 9, Appl
25	236.5	14.0	387	10 US-09-789-561-156	Sequence 156, App
26	232.5	13.8	315	10 US-09-910-174A-28	Sequence 28, Appl
27	227	13.5	215	9 US-09-789-561-158	Sequence 158, App
28	225	13.3	324	10 US-09-915-789A-20	Sequence 20, Appl
29	182	10.8	324	10 US-09-910-174A-6	Sequence 6, Appl
30	175.5	10.4	323	9 US-09-896-738-11	Sequence 11, Appl
31	175.5	10.4	323	9 US-09-915-789A-16	Sequence 16, Appl
32	175.5	10.4	323	10 US-09-955-866-5	Sequence 5, Appl
33	175.5	10.4	329	8 US-08-592-711-4	Sequence 4, Appl
34	175.5	10.4	329	10 US-09-837-667A-23	Sequence 23, Appl
35	175	10.4	319	10 US-09-837-667A-21	Sequence 21, Appl
36	175	10.4	304	10 US-09-837-667A-13	Sequence 13, Appl
37	172.5	10.2	329	10 US-09-303-510-6	Sequence 6, Appl
38	172.5	10.2	329	10 US-09-303-510-6	Sequence 6, Appl
39	171	10.1	480	10 US-09-875-338-5	Sequence 5, Appl
40	169	10.0	292	10 US-09-303-510-2	Sequence 2, Appl
41	169	10.0	292	10 US-09-303-510-4	Sequence 4, Appl
42	169	10.0	292	10 US-09-303-040-2	Sequence 2, Appl
43	169	10.0	292	10 US-09-303-040-4	Sequence 4, Appl
44	167.5	9.9	351	10 US-09-756-983-18	Sequence 18, Appl
45	166	9.8	260	10 US-09-845-899A-5	Sequence 5, Appl

ALIGNMENTS

RESULT 1
US-09-910-174A-29
; Sequence 29, Application US/09910174A
; Patent No. US20020106730A1
; GENERAL INFORMATION:
; APPLICANT: Coyle, Anthony J.
; APPLICANT: Frazer, Christopher C.
; APPLICANT: Manning, Stephen
; TITLE OF INVENTION: B7-H2 Molecules, No. US20020106730A1 Members of the B7
; TITLE OF INVENTION: Family and Uses Thereof
; FILE REFERENCE: 35800/236824
; CURRENT APPLICATION NUMBER: US/09/910.174A
; PRIOR FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: US 09/620.461
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FaastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 322
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-910-174A-29

Query Match 100.0%; Score 1687; DB 10; Length 322;
Best Local Similarity 100.0%; Pred. No. 6.7e-117;
Matches 322; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MQLKCPFSVSLGTRQVWKKLHVSSGFFSGGLFLILLSSLCMAAEIVGMVSNVVL	60
DB	1	MQLKCPFSVSLGTRQVWKKLHVSSGFFSGGLFLILLSSLCMAAEIVGMVSNVVL	60
QY	61	SCIDPRRRHNLISGLVYVQIENPEVSVTYYPYKSPGINVSSYKNRGHLIDSMKQGN	120
DB	61	SCIDPRRRHNLISGLVYVQIENPEVSVTYYPYKSPGINVSSYKNRGHLIDSMKQGN	120
QY	121	FSLYLNKVTPODTQEFTECVPMNTATELVKILEEVRLVAAVFSTPVISTDSNPQGE	180
DB	121	FSLYLNKVTPODTQEFTECVPMNTATELVKILEEVRLVAAVFSTPVISTDSNPQGE	180
QY	181	RITTCMSKNGYEPBNLYWINTTDSNLTIDTALONNTVYLNKGLYVISTRLPWTSGRDV	240
DB	181	RITTCMSKNGYEPBNLYWINTTDSNLTIDTALONNTVYLNKGLYVISTRLPWTSGRDV	240

QY 241 LCCVENVALHONITSISQAESTGNTKNPQETHNELKVLVPVLAAAFVFSFIYR 300
DB 241 LCCVENVALHONITSISQAESTGNTKNPQETHNELKVLVPVLAAAFVFSFIYR 300
QY 301 RTRPHRSYTGPKTVQLELTDHA 322
DB 301 RTRPHRSYTGPKTVQLELTDHA 322

RESULT 2

US-09-789-561-136
; Sequence 136, Application US/09789561
; Patent No. US20020064818A1
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 52 Human secreted proteins
; FILE REFERENCE: P2043P1
; CURRENT APPLICATION NUMBER: US/09/789,561
; PRIOR APPLICATION DATE: 2001-02-22
; PRIOR FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: PCT/US00/24008
; PRIOR FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: 60/152,317
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: 60/152,315
; PRIOR FILING DATE: 1999-09-03
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 136
; LENGTH: 302
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: SITE
; LOCATION: (128)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-789-561-136

Query Match 35.6%; Score 600.5; DB 10; Length 302;
Best Local Similarity 46.2%; Pred. No. 3.2e-37;
Matches 140; Conservative 40; Mismatches 102; Indels 21; Gaps 8;

QY 32 GLFLLLSLCAASAEVGMVGSNNVLSCLDPHRRHFNLSGLYVYQIENPEVSVTY 91
DB 7 GLFLFSSLRADTQEKVRAMVGSDELSCACPEGSREFDLNDVYVYQTSSEKTVVTVH 66
QY 92 LPYKSPGINVDSYKNGRHLSDSMKQGNFSLYLNKVTPODTQETCRVFMNTATLVKI 151
DB 67 IPQNSSLENVDSRYNRALMSPGMLRGDFSLRFLNVTPODEQKHFCLV-LSQSLGFQEV 125
QY 152 LEEVRLVAANFSTPVTISTDSSNPGQ-ERTYTCMSKNGYPEPNLYWINTDNLSDTA 210
DB 126 LSXEVTLHVAANFSPVVSAPH-PSQDELFTCTCSINGYPRPNVWINKTDSLLDQA 183
QY 211 LQNTVYLNKGLYDVISTLRPLWTSRGDVLCCVENVALHONITSISQAESTGNN- 266
DB 184 LQNDTVFLNMRGLYDVVSLRIARTPSVNIQCCIEVLLQNLTVGSQ---TGNDIGER 239
QY 267 ---TKNPOETHNNEL---KVLVPVLAAAFVFSFIYRTRPHRSYTGPKTV--QLEL 318
DB 240 DKITENPVSTGKNAATWSILAVLCLLVVVAIGAIGWVCRDCLQH-SYAGAWAVSPETEL 298
QY 319 TDH 321
DB 299 TGH 301

RESULT 3

US-09-764-853-812
; Sequence 812, Application US/09764853
; Patent No. US20020090672A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.

; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PJZ06
; CURRENT APPLICATION NUMBER: US/09/764,853
; PRIOR FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 939
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 812
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: SITE
; LOCATION: (170)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-764-853-812

Query Match 35.6%; Score 600.5; DB 10; Length 344;
Best Local Similarity 46.2%; Pred. No. 3.7e-37;
Matches 140; Conservative 40; Mismatches 102; Indels 21; Gaps

QY 32 GLFLLLSLCAASAEVGMVGSNNVLSCLDPHRRHFNLSGLYVYQIENPEVSVTY 91
DB 49 GLFLFSSLRADTQEKVRAMVGSDELSCACPEGSREFDLNDVYVYQTSSEKTVVTVH 108
QY 92 LPYKSPGINVDSYKNGRHLSDSMKQGNFSLYLNKVTPODTQETCRVFMNTATLVKI 151
DB 109 IPQNSSLENVDSRYNRALMSPGMLRGDFSLRFLNVTPODEQKHFCLV-LSQSLGFQEV 167
QY 152 LEEVRLVAANFSTPVTISTDSSNPGQ-ERTYTCMSKNGYPEPNLYWINTDNLSDTA 210
DB 168 LSXEVTLHVAANFSPVVSAPH-PSQDELFTCTCSINGYPRPNVWINKTDSLLDQA 225
QY 211 LQNTVYLNKGLYDVISTLRPLWTSRGDVLCCVENVALHONITSISQAESTGNN- 266
DB 226 LQNDTVFLNMRGLYDVVSLRIARTPSVNIQCCIEVLLQNLTVGSQ---TGNDIGER 281
QY 267 ---TKNPOETHNNEL---KVLVPVLAAAFVFSFIYRTRPHRSYTGPKTV--QLEL 318
DB 282 DKITENPVSTGKNAATWSILAVLCLLVVVAIGAIGWVCRDCLQH-SYAGAWAVSPETEL 340
QY 319 TDH 321
DB 341 TGH 343

RESULT 4

US-09-896-738-13
; Sequence 13, Application US/09896738
; Patent No. US20020165347A1
; GENERAL INFORMATION:
; APPLICANT: Fox, Michael
; APPLICANT: Sullivan, John K.
; APPLICANT: Pang, Mei

; TITLE OF INVENTION: B7-Like Molecules and Uses Thereof
; FILE REFERENCE: 00-513-A
; CURRENT APPLICATION NUMBER: US/09/896,738
; CURRENT FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 60/215,645
; PRIOR FILING DATE: 2000-06-30
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 13
; LENGTH: 302
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-896-738-13

Query Match 35.5%; Score 599.5; DB 9; Length 302;
Best Local Similarity 46.2%; Pred. No. 3.8e-37;
Matches 140; Conservative 40; Mismatches 102; Indels 21; Gaps 8;

QY 32 GLFLLLSLCAASAEVGMVGSNNVLSCLDPHRRHFNLSGLYVYQIENPEVSVTY 91


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Db      7  GLLFLFSSLRADTQEKVRAVAGSDVELSCACPEGSRFDLNDVYVYQTSKATVYTH 66
Qy      92  LPKSPGINVDSYKNGRGLSLDSMKQGNFSLYLKNVTPDQTOEFTCRVPMNTATELVKI 151
        67  IPQNSLEENVDSRYRRALMSPAGMLRGDFSLRLFNVTPODQKFKCLV-LSQSLGFQEV 125
Qy      152  LEEVRLRVAANFSPVITSSDSSNPGQ-ERTYTCMSKNGYEPNLYINTTNSLIDTA 210
        126  LSEVETLVAANFSPVVSAPHS--PSODELFTCTCTINGYPRPVYVIMKTDNSLIDQA 183
Qy      211  LQNNVTYLNKLGLYDVISTLRPLMPTSRGDLCCVENVALHONITSISOAESFTGN----- 266
        184  LQNDYVFLNMRGLYDVVSVLRIARTPSVNIIGCCIEENVLLQUNLTVGSQ---TGNDIGER 239
Qy      267  ---TKNPOETHNNEL---KVLVPLAVLAAAFVSFIYRTRPRRSYTGPKTV--QDEL 318
Db      240  DKITEPVSTGKKNATWLSILAVLCILVYVAVALGMVGCRCRCLQH-SYAGAAVSPETEL 298
Qy      319  TDH 321
        99  TGH 301

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RESULT 5
US-09-955-866-7
; Sequence 7, Application US/09955866
; Patent No. US20020107363A1
; GENERAL INFORMATION:
; APPLICANT: Fox, Michael
; APPLICANT: Sullivan, John K.
; APPLICANT: Holst, Paige
; APPLICANT: Yoshinaga, Steven Kiyoshi
; TITLE OF INVENTION: B7-Like Polypeptides and Uses Thereof
; FILE REFERENCE: 00, 759-A
; CURRENT APPLICATION NUMBER: US/09/955, 866
; PRIOR APPLICATION NUMBER: 60/233, 867
; PRIOR FILING DATE: 2000-09-20
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 302
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-955-866-7

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Query Match      35.5%; Score 599.5; DB 10; Length 302;
Best Local Similarity 46.2%; Pred. No. 3.8e-37;
Matches 140; Conservative 40; Mismatches 102; Indels 21; Gaps 8;

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Qy      32  GLLFLFSSLRADTQEKVRAVAGSDVELSCACPEGSRFDLNDVYVYQTSKATVYTH 91
        7  GLLFLFSSLRADTQEKVRAVAGSDVELSCACPEGSRFDLNDVYVYQTSKATVYTH 66
Qy      92  LPKSPGINVDSYKNGRGLSLDSMKQGNFSLYLKNVTPDQTOEFTCRVPMNTATELVKI 151
        67  IPQNSLEENVDSRYRRALMSPAGMLRGDFSLRLFNVTPODQKFKCLV-LSQSLGFQEV 125
Qy      152  LEEVRLRVAANFSPVITSSDSSNPGQ-ERTYTCMSKNGYEPNLYINTTNSLIDTA 210
        126  LSEVETLVAANFSPVVSAPHS--PSODELFTCTCTINGYPRPVYVIMKTDNSLIDQA 183
Qy      211  LQNNVTYLNKLGLYDVISTLRPLMPTSRGDLCCVENVALHONITSISOAESFTGN----- 266
        184  LQNDYVFLNMRGLYDVVSVLRIARTPSVNIIGCCIEENVLLQUNLTVGSQ---TGNDIGER 239
Qy      267  ---TKNPOETHNNEL---KVLVPLAVLAAAFVSFIYRTRPRRSYTGPKTV--QDEL 318
Db      240  DKITEPVSTGKKNATWLSILAVLCILVYVAVALGMVGCRCRCLQH-SYAGAAVSPETEL 298
Qy      319  TDH 321
        99  TGH 301

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Db      299  TGH 301
RESULT 6
US-09-915-789A-18
; Sequence 18, Application US/09915789A
; Patent No. US20020168762A1
; GENERAL INFORMATION:
; APPLICANT: Chen, Lieping
; APPLICANT: Chen, Lieping
; TITLE OF INVENTION: B7-H3 AND B7-H4, NOVEL IMMUNOREGULATORY
; TITLE OF INVENTION: MOLECULES
; FILE REFERENCE: 07039-219001
; CURRENT APPLICATION NUMBER: US/09/915, 789A
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 60/220, 991
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 302
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-915-789A-18

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Query Match      35.5%; Score 598.5; DB 9; Length 302;
Best Local Similarity 46.2%; Pred. No. 4.5e-37;
Matches 140; Conservative 40; Mismatches 102; Indels 21; Gaps 8;

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Qy      32  GLLFLFSSLRADTQEKVRAVAGSDVELSCACPEGSRFDLNDVYVYQTSKATVYTH 91
        7  GLLFLFSSLRADTQEKVRAVAGSDVELSCACPEGSRFDLNDVYVYQTSKATVYTH 66
Qy      92  LPKSPGINVDSYKNGRGLSLDSMKQGNFSLYLKNVTPDQTOEFTCRVPMNTATELVKI 151
        67  IPQNSLEENVDSRYRRALMSPAGMLRGDFSLRLFNVTPODQKFKCLV-LSQSLGFQEV 125
Qy      152  LEEVRLRVAANFSPVITSSDSSNPGQ-ERTYTCMSKNGYEPNLYINTTNSLIDTA 210
        126  LSEVETLVAANFSPVVSAPHS--PSODELFTCTCTINGYPRPVYVIMKTDNSLIDQA 183
Qy      211  LQNNVTYLNKLGLYDVISTLRPLMPTSRGDLCCVENVALHONITSISOAESFTGN----- 266
        184  LQNDYVFLNMRGLYDVVSVLRIARTPSVNIIGCCIEENVLLQUNLTVGSQ---TGNDIGER 239
Qy      267  ---TKNPOETHNNEL---KVLVPLAVLAAAFVSFIYRTRPRRSYTGPKTV--QDEL 318
Db      240  DKITEPVSTGKKNATWLSILAVLCILVYVAVALGMVGCRCRCLQH-SYAGAAVSPETEL 298
Qy      319  TDH 321
        299  TGH 301

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RESULT 7
US-09-764-853-630
; Sequence 630, Application US/09764853
; Patent No. US20020090672A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: P206
; CURRENT APPLICATION NUMBER: US/09/764, 853
; PRIOR FILING DATE: 2001-01-17
; Prior application data removed - consult PALM of file wrapper
; NUMBER OF SEQ ID NOS: 939
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 630
; LENGTH: 343
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-764-853-630

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Query Match      35.5%; Score 598.5; DB 10; Length 343;

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; ORGANISM: Homo sapiens
US-09-915-789A-11

Query Match      32.6%; Score 550.5; DB 9; Length 241;
Best Local Similarity 50.6%; Pred. No. 1.1e-33;
Matches 122; Conservative 32; Mismatches 72; Indels 15; Gaps 5;

QY 41 LCAAAEETEVGAMVSNVYLSCIDPHRRHFNLSGLYVWQIENPEVSYTYLIPKSPGIN 100
Db 1 LRADTQEVEVRMWSVDVLSACBEGSRFDINDVYVWQTSSESTVTVYHLPONSSLEN 60
QY 101 VDSYKNGHSLDMSKQGNFSLYKKNVTPDQTOEFTGVFNMTATTELKILIEVRLRV 160
Db 61 VDSRRNRLALMSPAQMLKDFSLRLFNTPQDQKFLCLV-LSQSIGFQEVLSIEVTLHV 119
QY 161 AANSTPVIISTSDSNPCQ-ERTYTCMSKNGYPEBNLYWINTDNLSDTALQNTVYLN 219
Db 120 AANFVVPVVASPHS--PQDELTFCTCSINGYPRDNVWINTDNLSDTALQNTVFLN 177
QY 220 KLGLVDVISTLRPMTSRKGDVLCCEVENVALHQNITSISQASEFTGNM-----TKNPOE 272
Db 8 MRGLDVVSVLRIRAPTPSVNIGCCIEENVALQNLTVGSGQ---TGNDIGERDKITENPVS 233
QY 273 T 273
Db 234 T 234

RESULT 11
US-09-789-561-135
; Sequence 135, Application US/09789561
; Patent No. US20020064818A1
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 52 Human secreted proteins
; FILE REFERENCE: P2043P1
; CURRENT APPLICATION NUMBER: US/09/789,561
; CURRENT FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: PCT/US00/24008
; PRIOR FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: 60/152,317
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: 60/152,315
; PRIOR FILING DATE: 1999-09-03
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 135
; LENGTH: 316
; ORIGIN:
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[illegible]

QY 139 ---RVEMNTATELVKLEEVRLVAAVFSTVSTDSN--PGQERTYCMKNGYPE 193
DB 124 VSTRDGSAA-----VSLQVAAPYSKSKSMLEPKKDRPEDYTTITCSYQGYPE 173
QY 194 PNLVINTTNSLIDTALONNTVYINKLGLYDVISTRLPWTSGDVLCVENVAL----- 249
DB 174 AEVFWQDQGVPL--TGAVTTSQMANEGCLFDVHSVLRLVYGANTYSCIVRNPLVQODA 231
QY 250 HONITSISQAESFTGNNTKNGPOETHNNELKVLVPLVLAALAAAFV 294
DB 232 HXSVTTTGGPMTF-----PPEALMWTVGSLVCIALLVLAFAV 269

RESULT 13
US-09-896-738-14
; Sequence 14, Application US/09896738
; Patent No. US20020165347A1
; GENERAL INFORMATION:
; APPLICANT: Fox, Michael
; APPLICANT: Sullivan, John K.
; APPLICANT: Pang, Wei
; APPLICANT: OF INVENTION: B7-Like Molecules and Uses Thereof
; FILE REFERENCE: 00-513-A
; CURRENT FILING DATE: 2001-06-29
; PRIOR FILING DATE: 2000-06-30
; PRIOR FILING DATE: 2000-06-30
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 316
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (233)
; OTHER INFORMATION: "Xaa" can be any naturally occurring amino acid
US-09-896-738-14

Query Match 14.6%; Score 247; DB 9; Length 316;
Best Local Similarity 30.5%; Pred. No. 2.9e-11;
Matches 87; Conservative 42; Mismatches 118; Indels 38; Gaps 9;

QY 21 LHVSGFSGGLG-LELLLSLSICAASTEVGAMGWNVLSCIDPHRRHNNGLVYTW 79
DB 12 VHVQ---AALGALMFCITLGLLEVQPEDPVVALVGTDTATCCSFPSPGSLAQLMLIW 67
QY 80 QLENPEVATVYLPYKSPGINVDSYKRGHLSLDSMKQGNFSLYTKVYTPQDPOEFTC- 138
DB 8 QLTDTKQIVHS---ARGQDQGSAYANRTALFPDLAQGNASLRLQVRVADGSGFTCF 123
QY 139 ---RVEMNTATELVKLEEVRLVAAVFSTVSTDSN--PGQERTYCMKNGYPE 193
DB 124 VSTRDGSAA-----VSLQVAAPYSKSKSMLEPKKDRPEDYTTITCSYQGYPE 173
QY 194 PNLVINTTNSLIDTALONNTVYINKLGLYDVISTRLPWTSGDVLCVENVAL----- 249
DB 174 AEVFWQDQGVPL--TGAVTTSQMANEGCLFDVHSVLRLVYGANTYSCIVRNPLVQODA 231
QY 250 HONITSISQAESFTGNNTKNGPOETHNNELKVLVPLVLAALAAAFV 294
DB 232 HXSVTTTGGPMTF-----PPEALMWTVGSLVCIALLVLAFAV 269

RESULT 14
US-09-978-697-137
; Sequence 137, Application US/09978697
; Patent No. US20020169284A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Deenoyers, Luc

APPLICANT: Baton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavini, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PIC27
CURRENT APPLICATION NUMBER: US/09/978,697
PRIOR FILING DATE: 2001-10-16
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/07450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/07632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077641
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/07649
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078004
PRIOR FILING DATE: 1998-03-13
PRIOR APPLICATION NUMBER: 60/078886
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PRIOR APPLICATION NUMBER: 60/078936
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078939
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079664
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079689
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PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079786
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079920

; PRIOR FILING DATE: 1998-03-30
; PRIOR APPLICATION NUMBER: 60/079923
; PRIOR FILING DATE: 1998-03-30
; PRIOR APPLICATION NUMBER: 60/080105
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; PRIOR FILING DATE: 1998-03-31
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; PRIOR APPLICATION NUMBER: 60/080194
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080327
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080328
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; PRIOR APPLICATION NUMBER: 60/081229
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; PRIOR FILING DATE: 1998-04-15
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; PRIOR FILING DATE: 1998-04-15
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; PRIOR APPLICATION NUMBER: 60/082568
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; PRIOR FILING DATE: 1998-04-21
; PRIOR APPLICATION NUMBER: 60/082704
; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/082804
; PRIOR FILING DATE: 1998-04-22
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; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
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; PRIOR APPLICATION NUMBER: 60/083554
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083558
; PRIOR FILING DATE: 1998-04-29

; PRIOR APPLICATION NUMBER: 60/083559
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; PRIOR FILING DATE: 1998-04-30
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; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084598
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; PRIOR APPLICATION NUMBER: 60/084600
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; PRIOR APPLICATION NUMBER: 60/084627
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; PRIOR APPLICATION NUMBER: 60/085339
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; PRIOR APPLICATION NUMBER: 60/085323
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085582
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; PRIOR APPLICATION NUMBER: 60/085700
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085689
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085580
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match 14.6%; Score 247; DB 9; Length 316;
Best Local Similarity 30.5%; Pred. No. 2.9e-11;
Matches 87; Conservative 42; Mismatches 118; Indels 38; Gaps 9;

QY 21 LHVSSGFFSGLG-LFLLLSLCAASAETEVGAMGVSNVVLSCIDPHRRHFNLSGLYVW 79
Db 12 VHVG-----AALGALWFCLTGALVQVPEDPVVALGTDTATLCCSPSPGFSLAQLNLIW 67
QY 80 QIENPEVSVTYIYPYKSPGPNVDSSYKNRGHLSLDSMKQGNFSLYKNTVTPQTOFTC- 138
Db 68 QLTDTKQLVHSHF-----AEGQDQGSAYANRTALPFDLLAQGNASRLQRVRVADEGSFTCF 123
QY 139 ---RVEMNTATELVKILEEVVRLRVANFSTPVISTSDSN--PGQERTVTCMSKNGYPE 193
Db 124 VSIRDFGSAA-----VSLQVAAPYKPSNTLEPNKDLRPGGTVTITCSYQGYPE 173
QY 194 PNLYWINTDNLSDTALQNNNTVYLNKLGHYDVISTLRPLWTSRGDVLGCVENVAL---- 249
Db 174 AEVFWQDQGVFL--TGNVTTSQMANEQGLFDVHVSVLRVVLGANGTVSCLVRNPVLQODA 231
QY 250 HONITSISQAESFTGNNTKNPQETHNNELKVLVPLVLAALAAAFV 294
Db 232 HXSVTITGQPMTF-----PPEALWTVTVGLSVCLTALLVALAFV 269

RESULT 15
US-09-978-192A-137
Sequence 137, Application US/09978192A
Patent No. US2002017753A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Geo, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertsens, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gutney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P1C9
CURRENT APPLICATION NUMBER: US/09/978,192A
PRIOR FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/07450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077641
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077649
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078004
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PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078936
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PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
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PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079664
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PRIOR APPLICATION NUMBER: 60/079689
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079663
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079786
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079920
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/079923
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/080105
PRIOR FILING DATE: 1998-03-31
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PRIOR APPLICATION NUMBER: 60/080327
PRIOR FILING DATE: 1998-04-01
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PRIOR APPLICATION NUMBER: 60/081229
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PRIOR APPLICATION NUMBER: 60/081955
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081817
PRIOR FILING DATE: 1998-04-15
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PRIOR FILING DATE: 1998-04-22
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PRIOR APPLICATION NUMBER: 60/083336
PRIOR FILING DATE: 1998-04-27
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/083392
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083495
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083496

1 PRIOR FILING DATE: 1998-04-29
2 PRIOR APPLICATION NUMBER: 60/083499
3 PRIOR FILING DATE: 1998-04-29
4 PRIOR APPLICATION NUMBER: 60/083545
5 PRIOR FILING DATE: 1998-04-29
6 PRIOR APPLICATION NUMBER: 60/083554
7 PRIOR FILING DATE: 1998-04-29
8 PRIOR APPLICATION NUMBER: 60/083558
9 PRIOR FILING DATE: 1998-04-29
10 PRIOR APPLICATION NUMBER: 60/083559
11 PRIOR FILING DATE: 1998-04-29
12 PRIOR APPLICATION NUMBER: 60/083500
13 PRIOR FILING DATE: 1998-04-29
14 PRIOR APPLICATION NUMBER: 60/083742
15 PRIOR FILING DATE: 1998-04-30
16 PRIOR APPLICATION NUMBER: 60/084366
17 PRIOR FILING DATE: 1998-05-05
18 PRIOR APPLICATION NUMBER: 60/084414
19 PRIOR FILING DATE: 1998-05-06
20 PRIOR APPLICATION NUMBER: 60/084441
21 PRIOR FILING DATE: 1998-05-06
22 PRIOR APPLICATION NUMBER: 60/084637
23 PRIOR FILING DATE: 1998-05-07
24 PRIOR APPLICATION NUMBER: 60/084639
25 PRIOR FILING DATE: 1998-05-07
26 PRIOR APPLICATION NUMBER: 60/084640
27 PRIOR FILING DATE: 1998-05-07
28 PRIOR APPLICATION NUMBER: 60/084598
29 PRIOR FILING DATE: 1998-05-07
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31 PRIOR FILING DATE: 1998-05-07
32 PRIOR APPLICATION NUMBER: 60/084627
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34 PRIOR APPLICATION NUMBER: 60/084643
35 PRIOR FILING DATE: 1998-05-07
36 PRIOR APPLICATION NUMBER: 60/085339
37 PRIOR FILING DATE: 1998-05-13
38 PRIOR APPLICATION NUMBER: 60/085338
39 PRIOR FILING DATE: 1998-05-13
40 PRIOR APPLICATION NUMBER: 60/085323
41 PRIOR FILING DATE: 1998-05-13
42 PRIOR APPLICATION NUMBER: 60/085582
43 PRIOR FILING DATE: 1998-05-15
44 PRIOR APPLICATION NUMBER: 60/085700
45 PRIOR FILING DATE: 1998-05-15
46 PRIOR APPLICATION NUMBER: 60/085689
47 PRIOR FILING DATE: 1998-05-15
48 PRIOR APPLICATION NUMBER: 60/085579
49 PRIOR FILING DATE: 1998-05-15
50 PRIOR APPLICATION NUMBER: 60/085580
51 PRIOR FILING DATE: 1998-05-15
52 PRIOR APPLICATION NUMBER: 60/085573
53 PRIOR FILING DATE: 1998-05-15
54 PRIOR APPLICATION NUMBER: 60/085704
55 PRIOR FILING DATE: 1998-05-15
56 PRIOR APPLICATION NUMBER: 60/085697

Query Match 14.6%; Score 247; DB 9; Length 316;
Best Local Similarity 30.5%; Pred. No. 2.9e-11;
Matches 87; Conservative 42; Mismatches 118; Indels 38; Gaps 9;

Qy 21 LHVSSGFFGSLG-LFLLLSLCAASAEVEGAMVGSNVVLSCIDPHRHFNLSGLYVW 79
Db 12 VHVVG----AALGALVCLTGALVEVPEDVPVVALVGTDTATCCSFSPGFGSLAQLNLIW 67
Qy 80 QIENPEVSVTYLTPYKSPGINVDSSYKNGHLSLDSMKGNFSLYLKNTVPDQTQBEFTC- 138
Db 68 QLTDTKQLVHSF-----AEGDQGSAYANRTALFPDLLAQGNASLRQRVRVADEGSFTCF 123
Qy 139 ---RVFMNTATELVKILEEVVRLVRVANFSTPVISTDSSN--PGQERTYTCMSKNGYPE 193
Db 124 VSRDFGSA-----VSLQVAAPYKSPMTLEPNKDLRPGDVTITCSSYQGYPE 173

Qy 194 PNLYWINTTNSLIDTALQNNTVLNLKGLDYVISTLRLPWTSRGDVLCCVENVAL---- 249
Db 174 AEVFWQDQGVPL--TGNVTTISQWANEQGLFDVHSVLRVVVLGANGTYSCLVRNPVLQODA 231
Qy 250 HQNITSISQAESFTGNNTKNPQETHNNELKVLVPVLAVLAAAAFV 294
Db 232 HXSVTITGQPMTF-----PPEALWTVTGLSVCLIALVALAFV 269

Search completed: December 18, 2002, 07:08:43
Job time : 52.7697 secs

GenCore version 5.1.3
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OM protein - protein search, using sw model

Run on: December 18, 2002, 07:06:12 ; Search time 46.3033 Seconds
(without alignments)
104.267 Million cell updates/sec

Title: US-09-728-420C-12

Perfect score: 1495
Sequence: 1 MRUGSPGLFLFSSLRADT.....VAVATGCRDRCLQHSYAG 288

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 106657 seqs, 16763532 residues

Total number of hits satisfying chosen parameters: 106657

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications_AA.*
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2: /cgn2_6/ptodata/1/pubpaa/PCF_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
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9: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
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14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1495	100.0	302	9	US-09-896-738-13
2	1495	100.0	302	10	US-09-955-866-7
3	1495	100.0	309	10	US-09-910-174A-7
4	1494	99.9	302	9	US-09-915-789A-18
5	1494	99.9	343	10	US-09-764-853-630
6	1494	99.9	345	10	US-09-764-853-810
7	1490	99.7	302	10	US-09-789-561-136
8	1490	99.7	344	9	US-09-764-853-812
9	1248	83.5	241	9	US-09-915-789A-11
10	588.5	39.4	322	10	US-09-910-174A-29
11	294.5	19.7	316	9	US-09-915-789A-1
12	294.5	19.7	316	10	US-09-875-338-13
13	294.5	19.7	316	10	US-09-910-174A-24
14	293.5	19.6	316	10	US-09-875-338-11
15	292.5	19.6	316	9	US-09-915-789A-3
16	290.5	19.4	316	9	US-09-978-295A-137
17	290.5	19.4	316	9	US-09-896-738-14
18	290.5	19.4	316	9	US-09-978-697-137
19	290.5	19.4	316	9	US-09-978-192A-137

20	290.5	19.4	316	10	US-09-789-561-135	Sequence 135, App
21	290.5	19.4	316	10	US-09-955-866-8	Sequence 8, Appl1
22	290.5	19.4	316	12	US-10-052-586-54	Sequence 54, Appl1
23	274	18.3	315	10	US-09-910-174A-28	Sequence 28, Appl1
24	273.5	18.3	534	10	US-09-875-338-7	Sequence 7, Appl1
25	273.5	18.3	698	10	US-09-875-338-9	Sequence 9, Appl1
26	271	18.1	387	10	US-09-789-561-156	Sequence 156, App
27	247	16.5	216	10	US-09-789-561-158	Sequence 158, App
28	244	16.3	215	9	US-09-915-789A-20	Sequence 20, Appl1
29	185	12.4	329	10	US-09-303-040-6	Sequence 6, Appl1
30	185	12.4	329	10	US-09-303-040-6	Sequence 21, Appl1
31	182	12.2	314	10	US-09-837-867A-21	Sequence 13, Appl1
32	182	12.2	314	10	US-09-837-867A-13	Sequence 19, Appl1
33	179	12.0	526	9	US-09-896-738-19	Sequence 9, Appl1
34	179	12.0	526	10	US-09-910-174A-9	Sequence 2, Appl1
35	179	12.0	526	10	US-09-955-866-13	Sequence 13, Appl1
36	165.5	11.1	323	9	US-09-896-738-11	Sequence 16, Appl1
37	165.5	11.1	323	9	US-09-915-789A-16	Sequence 5, Appl1
38	165.5	11.1	323	10	US-09-955-866-5	Sequence 4, Appl1
39	165.5	11.1	329	8	US-08-592-711-4	Sequence 23, Appl1
40	165.5	11.1	329	10	US-09-837-867A-23	Sequence 10, Appl1
41	164.5	11.0	288	8	US-08-592-711-2	Sequence 14, Appl1
42	164.5	11.0	288	9	US-09-896-738-10	Sequence 15, Appl1
43	164.5	11.0	288	9	US-09-915-789A-15	Sequence 19, Appl1
44	164.5	11.0	288	10	US-09-772-102-14	
45	164.5	11.0	288	10	US-09-837-867A-19	

ALIGNMENTS

RESULT 1
US-09-896-738-13
; Sequence 13, Application US/09896738
; Patent No. US20020165347A1
; GENERAL INFORMATION:
; APPLICANT: Fox, Michael
; APPLICANT: Sullivan, John K.
; TITLE OF INVENTION: B7-Like Molecules and Uses Thereof
; FILE REFERENCE: 00-513-A
; CURRENT APPLICATION NUMBER: US/09/896,738
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 60/215,645
; PRIOR FILING DATE: 2000-06-30
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 13
; LENGTH: 302
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-896-738-13

Query Match	Score	DB 9;	Length	302;
Best Local Similarity	100.0%;	Pred. No. 6.5e-118;		
Matches 288;	Conservative	0;	Mismatches	0;
			Indels	0;
			Gaps	0;
QY	1	MRUGSPGLFLFSSLRADTQEKVAVWGSVDVLSACPEBSRFDLNDVYVYWTSSK	60	
DB	1	MRUGSPGLFLFSSLRADTQEKVAVWGSVDVLSACPEBSRFDLNDVYVYWTSSK	60	
QY	61	TVVTVYHIPPNSLSIENVDSRYRRALMSPAGMLRGDFSLRLEFVNTQDEQKFCVLVQSGL	120	
DB	61	TVVTVYHIPPNSLSIENVDSRYRRALMSPAGMLRGDFSLRLEFVNTQDEQKFCVLVQSGL	120	
QY	121	GFPEVLSVEVTLHVANESVPPVVSAPHSPQDELFTCTCSINGYRPPVYVYVTKNDNSL	180	
DB	121	GFPEVLSVEVTLHVANESVPPVVSAPHSPQDELFTCTCSINGYRPPVYVYVTKNDNSL	180	
QY	181	DQALQNDYFLNMRGLYDVSVYLRARPSVNIIGCCIEVNLQQLTVGSGQTGNDIGERD	240	
DB	181	DQALQNDYFLNMRGLYDVSVYLRARPSVNIIGCCIEVNLQQLTVGSGQTGNDIGERD	240	

QY 241 KITENPVSTGKNAATWSILAVLCLLVVAVVAIGWVCRDRCLQHSYAG 288
Db 241 KITENPVSTGKNAATWSILAVLCLLVVAVVAIGWVCRDRCLQHSYAG 288

RESULT 2

US-09-955-866-7
; Sequence 7, Application US/09955866
; Patent No. US20020107363A1
; GENERAL INFORMATION:
; APPLICANT: Fox, Michael
; APPLICANT: Sullivan, John K.
; APPLICANT: Holst, Paige
; APPLICANT: Yoshinaga, Steven Kiyoshi
; TITLE OF INVENTION: B7-Like Polypeptides and Uses Thereof
; FILE REFERENCE: 00.759-A
; CURRENT APPLICATION NUMBER: US/09/955.866
; PRIOR FILING DATE: 2001-09-19
; PRIOR APPLICATION NUMBER: 60/233.867
; PRIOR FILING DATE: 2000-09-20
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 7
; LENGTH: 302
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-955-866-7

Query Match 100.0%; Score 1495; DB 10; Length 302;
Best Local Similarity 100.0%; Pred. No. 6.5e-118;
Matches 288; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRLGSPGLLFLFSSLRADTQKEVRAVGVSDVELSCACPEGRFRDLNDVYVWQTSESK 60
Db 1 MRLGSPGLLFLFSSLRADTQKEVRAVGVSDVELSCACPEGRFRDLNDVYVWQTSESK 60
QY 61 TVVYHIPQNSSLENVDSRYRNRALMSPAGMLRGDFSLRFLNVTPODEQKHFCLVLSQSL 120
Db 61 TVVYHIPQNSSLENVDSRYRNRALMSPAGMLRGDFSLRFLNVTPODEQKHFCLVLSQSL 120
QY 121 GFQEVLSVEVTLHVAANFSPVVSAPHSPSQDELFTTCTTSINGYPRPNVYVWINKTDSLL 180
Db 121 GFQEVLSVEVTLHVAANFSPVVSAPHSPSQDELFTTCTTSINGYPRPNVYVWINKTDSLL 180
QY 181 DOALQNDTVFLNMRGLYDVVSVLRARTSPSVNIGCCIEINVLLQONLTVGSGTGNDIGERD 240
Db 181 DOALQNDTVFLNMRGLYDVVSVLRARTSPSVNIGCCIEINVLLQONLTVGSGTGNDIGERD 240
QY 241 KITENPVSTGKNAATWSILAVLCLLVVAVVAIGWVCRDRCLQHSYAG 288
Db 241 KITENPVSTGKNAATWSILAVLCLLVVAVVAIGWVCRDRCLQHSYAG 288

RESULT 3

US-09-910-174A-7
; Sequence 7, Application US/09910174A
; Patent No. US20020106730A1
; GENERAL INFORMATION:
; APPLICANT: Coyle, Anthony J.
; APPLICANT: Fraser, Christopher C.
; APPLICANT: Manning, Stephen
; TITLE OF INVENTION: B7-H2 Molecules, No. US20020106730A1 Members of the B7
; FILE REFERENCE: 35800/236924
; CURRENT APPLICATION NUMBER: US/09/910.174A
; PRIOR FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: US 09/620.461
; PRIOR FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 309
; TYPE: PRT

; ORGANISM: Homo sapiens
US-09-910-174A-7

Query Match 100.0%; Score 1495; DB 10; Length 309;
Best Local Similarity 100.0%; Pred. No. 6.7e-118;
Matches 288; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRLGSPGLLFLFSSLRADTQKEVRAVGVSDVELSCACPEGRFRDLNDVYVWQTSESK 60
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Db 61 TVVYHIPQNSSLENVDSRYRNRALMSPAGMLRGDFSLRFLNVTPODEQKHFCLVLSQSL 120
QY 121 GFQEVLSVEVTLHVAANFSPVVSAPHSPSQDELFTTCTTSINGYPRPNVYVWINKTDSLL 180
Db 121 GFQEVLSVEVTLHVAANFSPVVSAPHSPSQDELFTTCTTSINGYPRPNVYVWINKTDSLL 180
QY 181 DOALQNDTVFLNMRGLYDVVSVLRARTSPSVNIGCCIEINVLLQONLTVGSGTGNDIGERD 240
Db 181 DOALQNDTVFLNMRGLYDVVSVLRARTSPSVNIGCCIEINVLLQONLTVGSGTGNDIGERD 240
QY 241 KITENPVSTGKNAATWSILAVLCLLVVAVVAIGWVCRDRCLQHSYAG 288
Db 241 KITENPVSTGKNAATWSILAVLCLLVVAVVAIGWVCRDRCLQHSYAG 288

RESULT 4

US-09-915-789A-18
; Sequence 18, Application US/09915789A
; Patent No. US20020168762A1
; GENERAL INFORMATION:
; APPLICANT: Chen, Lieping
; TITLE OF INVENTION: B7-H3 AND B7-H4, NOVEL IMMUNOREGULATORY
; FILE REFERENCE: 07039-219001
; CURRENT APPLICATION NUMBER: US/09/915.789A
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 60/220.991
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 302
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-915-789A-18

Query Match 99.9%; Score 1494; DB 9; Length 302;
Best Local Similarity 99.7%; Pred. No. 7.9e-118;
Matches 287; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRLGSPGLLFLFSSLRADTQKEVRAVGVSDVELSCACPEGRFRDLNDVYVWQTSESK 60
Db 1 MRLGSPGLLFLFSSLRADTQKEVRAVGVSDVELSCACPEGRFRDLNDVYVWQTSESK 60
QY 61 TVVYHIPQNSSLENVDSRYRNRALMSPAGMLRGDFSLRFLNVTPODEQKHFCLVLSQSL 120
Db 61 TVVYHIPQNSSLENVDSRYRNRALMSPAGMLRGDFSLRFLNVTPODEQKHFCLVLSQSL 120
QY 121 GFQEVLSVEVTLHVAANFSPVVSAPHSPSQDELFTTCTTSINGYPRPNVYVWINKTDSLL 180
Db 121 GFQEVLSVEVTLHVAANFSPVVSAPHSPSQDELFTTCTTSINGYPRPNVYVWINKTDSLL 180
QY 181 DOALQNDTVFLNMRGLYDVVSVLRARTSPSVNIGCCIEINVLLQONLTVGSGTGNDIGERD 240
Db 181 DOALQNDTVFLNMRGLYDVVSVLRARTSPSVNIGCCIEINVLLQONLTVGSGTGNDIGERD 240
QY 241 KITENPVSTGKNAATWSILAVLCLLVVAVVAIGWVCRDRCLQHSYAG 288
Db 241 KITENPVSTGKNAATWSILAVLCLLVVAVVAIGWVCRDRCLQHSYAG 288

RESULT 5
 US-09-764-853-630
 ; Sequence 630, Application US/09764853
 ; Patent No. US20020090672A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rosen et al.
 ; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
 ; FILE REFERENCE: P206
 ; CURRENT APPLICATION NUMBER: US/09/764,853
 ; CURRENT FILING DATE: 2001-01-17
 ; Prior application data removed - consult PALM or file wrapper
 ; NUMBER OF SEQ ID NOS: 939
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 630
 ; LENGTH: 343
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-764-853-630

Query Match 99.9%; Score 1494; DB 10; Length 343;
 Best Local Similarity 99.7%; Pred. No. 9,2e-118;
 Matches 287; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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 DB 42 MRLGSPGLFLFSSLRADTQKEVRAMVGSDELSCACPEGSRPDLNDVYVYVWQTSSEK 101
 QY 61 TVVYTHIPONSSLENDVSRYRRNALMSPAGMLRGDPSLRLEFVTPQDEKFCVLVLSQSL 120
 DB 102 TVVYTHIPONSSLENDVSRYRRNALMSPAGMLRGDPSLRLEFVTPQDEKFCVLVLSQSL 161
 QY 121 GFOEVLSEVTLTHVAANFSVPVVSAPHSPODELFTCTCSINGYRPNVYVWINKTDSNLSL 180
 DB 162 GFOEVLSEVTLTHVAANFSVPVVSAPHSPODELFTCTCSINGYRPNVYVWINKTDSNLSL 221
 QY 161 DOALONDVFLNMRGLYDVSVLRIARTPSVNI GCCIENVLLOQNLTVGSQTGNDIGERD 240
 DB 222 DOALONDVFLNMRGLYDVSVLRIARTPSVNI GCCIENVLLOQNLTVGSQTGNDIGERD 281
 QY 241 KITENPVSTGEKNAATWSILAVCLLVVAVAI GWVCRDRCLOHSHYAG 288
 DB 282 KITENPVSTGEKNAATWSILAVCLLVVAVAI GWVCRDRCLOHSHYAG 329

RESULT 6
 US-09-764-853-810
 ; Sequence 810, Application US/09764853
 ; Patent No. US20020090672A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rosen et al.
 ; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
 ; FILE REFERENCE: P206
 ; CURRENT APPLICATION NUMBER: US/09/764,853
 ; CURRENT FILING DATE: 2001-01-17
 ; Prior application data removed - consult PALM or file wrapper
 ; NUMBER OF SEQ ID NOS: 939
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 810
 ; LENGTH: 345
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-764-853-810

Query Match 99.9%; Score 1494; DB 10; Length 345;
 Best Local Similarity 99.7%; Pred. No. 9.3e-118;
 Matches 287; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRLGSPGLFLFSSLRADTQKEVRAMVGSDELSCACPEGSRPDLNDVYVYVWQTSSEK 60
 DB 44 MRLGSPGLFLFSSLRADTQKEVRAMVGSDELSCACPEGSRPDLNDVYVYVWQTSSEK 103
 QY 61 TVVYTHIPONSSLENDVSRYRRNALMSPAGMLRGDPSLRLEFVTPQDEKFCVLVLSQSL 120

DB 104 TVVYTHIPONSSLENDVSRYRRNALMSPAGMLRGDPSLRLEFVTPQDEKFCVLVLSQSL 163
 QY 121 GFOEVLSEVTLTHVAANFSVPVVSAPHSPODELFTCTCSINGYRPNVYVWINKTDSNLSL 180
 DB 164 GFOEVLSEVTLTHVAANFSVPVVSAPHSPODELFTCTCSINGYRPNVYVWINKTDSNLSL 223
 QY 181 DOALONDVFLNMRGLYDVSVLRIARTPSVNI GCCIENVLLOQNLTVGSQTGNDIGERD 240
 DB 224 DOALONDVFLNMRGLYDVSVLRIARTPSVNI GCCIENVLLOQNLTVGSQTGNDIGERD 283
 QY 241 KITENPVSTGEKNAATWSILAVCLLVVAVAI GWVCRDRCLOHSHYAG 288
 DB 284 KITENPVSTGEKNAATWSILAVCLLVVAVAI GWVCRDRCLOHSHYAG 331

RESULT 7
 US-09-789-561-136
 ; Sequence 136, Application US/09789561
 ; Patent No. US20020064818A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Ni et al.
 ; TITLE OF INVENTION: 52 Human secreted proteins
 ; FILE REFERENCE: P2043P1
 ; CURRENT APPLICATION NUMBER: US/09/789,561
 ; CURRENT FILING DATE: 2001-02-22
 ; PRIOR APPLICATION NUMBER: PCF/US00/24008
 ; PRIOR FILING DATE: 2000-08-31
 ; PRIOR APPLICATION NUMBER: 60/152,317
 ; PRIOR FILING DATE: 1999-09-03
 ; PRIOR APPLICATION NUMBER: 60/152,315
 ; PRIOR FILING DATE: 1999-09-03
 ; NUMBER OF SEQ ID NOS: 194
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 136
 ; LENGTH: 302
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: SITE
 ; LOCATION: (128)
 ; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
 US-09-789-561-136

168 swapped

Query Match 99.7%; Score 1490; DB 10; Length 302;
 Best Local Similarity 99.7%; Pred. No. 1.7e-117;
 Matches 287; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MRLGSPGLFLFSSLRADTQKEVRAMVGSDELSCACPEGSRPDLNDVYVYVWQTSSEK 60
 DB 1 MRLGSPGLFLFSSLRADTQKEVRAMVGSDELSCACPEGSRPDLNDVYVYVWQTSSEK 60
 QY 61 TVVYTHIPONSSLENDVSRYRRNALMSPAGMLRGDPSLRLEFVTPQDEKFCVLVLSQSL 120
 DB 61 TVVYTHIPONSSLENDVSRYRRNALMSPAGMLRGDPSLRLEFVTPQDEKFCVLVLSQSL 120
 QY 121 GFOEVLSEVTLTHVAANFSVPVVSAPHSPODELFTCTCSINGYRPNVYVWINKTDSNLSL 180
 DB 121 GFOEVLSEVTLTHVAANFSVPVVSAPHSPODELFTCTCSINGYRPNVYVWINKTDSNLSL 180
 QY 181 DOALONDVFLNMRGLYDVSVLRIARTPSVNI GCCIENVLLOQNLTVGSQTGNDIGERD 240
 DB 181 DOALONDVFLNMRGLYDVSVLRIARTPSVNI GCCIENVLLOQNLTVGSQTGNDIGERD 240
 QY 241 KITENPVSTGEKNAATWSILAVCLLVVAVAI GWVCRDRCLOHSHYAG 288
 DB 241 KITENPVSTGEKNAATWSILAVCLLVVAVAI GWVCRDRCLOHSHYAG 288

RESULT 8
 US-09-764-853-812
 ; Sequence 812, Application US/09764853
 ; Patent No. US20020090672A1

GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PJ206
; CURRENT APPLICATION NUMBER: US/09/764,853
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 939
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 812
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (170)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-764-853-812

Query Match 99.7%; Score 1490; DB 10; Length 344;
Best Local Similarity 99.7%; Pred. No. 2e-117;
Matches 287; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MRIGSPGLLFLFSSLRADTQKEVRAMVGSDELSCACPEGSRFDLNDVYVYWTSES 60
DB 43 MRIGSPGLLFLFSSLRADTQKEVRAMVGSDELSCACPEGSRFDLNDVYVYWTSES 102
QY 61 TVVYHIPQNSSLENVDSRYNRALMSPAGMLRGDFSLFLFNVTPQDEQKFKCLVLSQSL 120
DB 103 TVVYHIPQNSSLENVDSRYNRALMSPAGMLRGDFSLFLFNVTPQDEQKFKCLVLSQSL 162
QY 121 GFOEVLSEVTLHVAANFSPVVSAPHSPQDELFTCTCSINGYPRPNVYWKNTDLSLL 180
DB 163 GFOEVLSEVTLHVAANFSPVVSAPHSPQDELFTCTCSINGYPRPNVYWKNTDLSLL 222
QY 181 DQALQNDTVFLNMRGLYDVVSVLRARTPSVNIIGCCIEVLLQNLTVGSGTGNIDIGERD 240
DB 223 DQALQNDTVFLNMRGLYDVVSVLRARTPSVNIIGCCIEVLLQNLTVGSGTGNIDIGERD 282
QY 241 KITENPVSTGEKNAATWSILAVLCILVVAIVAIGWVCRDRCLQHSYAG 288
DB 283 KITENPVSTGEKNAATWSILAVLCILVVAIVAIGWVCRDRCLQHSYAG 330

RESULT 9

US-09-915-789A-11
; Sequence 11, Application US/09915789A
; Patent No. US20020168762A1

GENERAL INFORMATION:
; APPLICANT: Chen, Lieping

; TITLE OF INVENTION: B7-H3 AND B7-H4, NOVEL IMMUNOREGULATORY MOLECULES

; FILE REFERENCE: 07039-219001
; CURRENT APPLICATION NUMBER: US/09/915,789A

; CURRENT FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 60/220,991

; PRIOR FILING DATE: 2000-07-27
; NUMBER OF SEQ ID NOS: 23

; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11

; LENGTH: 241
; TYPE: PRT

; ORGANISM: Homo sapiens
US-09-915-789A-11

Query Match 83.5%; Score 1248; DB 9; Length 241;
Best Local Similarity 99.6%; Pred. No. 2e-97;
Matches 240; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 16 LRADTQKEVRAMVGSDELSCACPEGSRFDLNDVYVYWTSES 75
DB 1 LRADTQKEVRAMVGSDELSCACPEGSRFDLNDVYVYWTSES 60

QY 76 VDSYRNRLMSPAGMLRGDFSLFLFNVTPQDEQKFKCLVLSQSLGFOEVLSEVTLHVA 135
DB 61 VDSYRNRLMSPAGMLRGDFSLFLFNVTPQDEQKFKCLVLSQSLGFOEVLSEVTLHVA 120
QY 136 ANFSPVVSAPHSPQDELFTCTCSINGYPRPNVYWKNTDLSLLDQALQNDTVFLNMRG 195
DB 121 ANFSPVVSAPHSPQDELFTCTCSINGYPRPNVYWKNTDLSLLDQALQNDTVFLNMRG 180
QY 196 LYDVSVLRARTPSVNIIGCCIEVLLQNLTVGSGTGNIDIGERDKITENPVSTGEKNA 255
DB 181 LYDVSVLRARTPSVNIIGCCIEVLLQNLTVGSGTGNIDIGERDKITENPVSTGEKNA 240
QY 256 T 256
DB 241 T 241

RESULT 10

US-09-910-174A-29
; Sequence 29, Application US/09910174A

; Patent No. US20020106730A1
; GENERAL INFORMATION:
; APPLICANT: Coyle, Anthony J.

; APPLICANT: Manning, Stephen
; TITLE OF INVENTION: B7-H2 Molecules, No. US20020106730A1el Members of the B7

; TITLE OF INVENTION: Family and Uses Thereof
; FILE REFERENCE: 35800/236924

; CURRENT APPLICATION NUMBER: US/09/910,174A
; CURRENT FILING DATE: 2001-07-20

; PRIOR APPLICATION NUMBER: US 09/620,461
; PRIOR FILING DATE: 2000-07-20

; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 29
; LENGTH: 322

; TYPE: PRT
; ORGANISM: Mus musculus

US-09-910-174A-29

Query Match 39.4%; Score 588.5; DB 10; Length 322;
Best Local Similarity 46.6%; Pred. No. 4.4e-42;
Matches 135; Conservative 39; Mismatches 97; Indels 19; Gaps 7;

QY 7 GLLELFFSSLRADTQKEVRAMVGSDELSCACPEGSRFDLNDVYVYWTSES 66
DB 32 GLLELFFSSLRADTQKEVRAMVGSDELSCACPEGSRFDLNDVYVYWTSES 91

QY 67 IPQNSSLENVDSRYNRALMSPAGMLRGDFSLFLFNVTPQDEQKFKCLVLSQSLGFOEV 125
DB 92 LPYKSPGINVDSSYKNGHLSLSMKGQNFSLYLKKNVTPQDTQEFCTCRVFMNTATLKV 151

QY 126 LSVEVTLHVAANFSPVVSAPHSPQDELFTCTCSINGYPRPNVYWKNTDLSLLDQ 183
DB 152 LEEVVRVLRVAANFSTPVISTSDSNFQ-ERTYTCMKNKGYPEPNLYWINTDLSLIDTA 210

QY 184 LQNDTVFLNMRGLYDVVSVLRARTPSVNIIGCCIEVLLQNLTVGSGTGNIDIGER 239
DB 211 LQNDTVFLNMRGLYDVVSVLRARTPSVNIIGCCIEVLLQNLTVGSGTGNIDIGER 266

QY 240 DKITENPVSTGEKNAATWSILAVLCILVVAIVAIGWVCRDRCLQHSYAG 288
DB 267 ---TKNPQETHNNEL---KVLVPVLAVLAAAFVFIYRTRTPHRSYTG 310

RESULT 11

US-09-915-789A-1

; Sequence 1, Application US/09915789A
; Patent No. US20020168762A1

; GENERAL INFORMATION:
; APPLICANT: Chen, Lieping

; TITLE OF INVENTION: B7-H3 AND B7-H4, NOVEL IMMUNOREGULATORY MOLECULES

FILE REFERENCE: 07039-219001
CURRENT APPLICATION NUMBER: US/09/915.789A
CURRENT FILING DATE: 2002-06-04
PRIOR APPLICATION NUMBER: US 60/220,991
PRIOR FILING DATE: 2000-07-27
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1
LENGTH: 316
TYPE: PRF
ORGANISM: Homo sapiens
US-09-915-789A-1

Query Match 19.7%; Score 294.5; DB 9; Length 316;
Best Local Similarity 31.1%; Pred. No. 1.6e-17;
Matches 93; Conservative 40; Mismatches 111; Indels 55; Gaps 11;

QY 2 RLGSPG-----LLFLFSSLRADTQKEKVRAMVGSDELSCACPGSRFDLNDV 50
DB 4 RRGSPGMGVHVGALGALMFCLTGALVQVPEDPVVALVGTDTATLCCSFSPSPGSLAQL 63
QY 1 YVWQTSSEKTVVTHIIPONSSLENVD--SRYNRALMSPAGMLRGDFSLRLFNVTPODE 108
DB 64 NLIMQULTDTRKQV-----HSPAEQDQGSAYANRTALFPDLAAGNASTLRQRRVADE 117
QY 109 QKFHCLVLSQSLGFQEVLSVEVTLHVANFVSVVPSVAPHSPOQ-----DELFTCTGSI 163
DB 118 GSFTCFVSIRDFG-----SAAVSLQVAAPYSKP--SMLEPKDKLRPDGDTVTITCSSYRG 170
QY 164 YPRPNVYW-----INKTDSLDDQALQNDTVFLNMRGLYDVSVLRIRATPSVINIGCCIE 218
DB 171 YPEAEVFWODGQGVPLTGAVTTTSQ-----MANEQGLFDVHSVLRVVLGANGTYSCLVR 223
QY 219 NVLLQQLTVSGQTGNDIGERDKITENPVSTGEKNAATWSILAVCLIVVAVAIGWYC 277
DB 224 NPVLQDD-AHGSVT-----ITGQPMTPFPE--ALMVTYGLSVCLIALVLAFAVC 270

RESULT 12
US-09-875-338-13
Sequence 13, Application US/09875338
Patent No. US20020095024A1
GENERAL INFORMATION:
APPLICANT: MIKESSEL, GLEN E.
APPLICANT: CHANG, HAN
APPLICANT: FINGER, JOSHUA N.
APPLICANT: YANG, GUCHEN
APPLICANT: LU, PIN
APPLICANT: ZHOU, XIA-DI
APPLICANT: PEACH, ROBERT
TITLE OF INVENTION: B7-RELATED NUCLEIC ACIDS AND POLYPEPTIDES USEFUL FOR
FILE REFERENCE: 3053-4071US2
CURRENT APPLICATION NUMBER: US/09/875.338
CURRENT FILING DATE: 2001-06-06
PRIOR APPLICATION NUMBER: 60/272,107
PRIOR FILING DATE: 2001-02-28
PRIOR APPLICATION NUMBER: 60/209,811
PRIOR FILING DATE: 2000-06-06
NUMBER OF SEQ ID NOS: 94
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 13
LENGTH: 316
TYPE: PRF
ORGANISM: Homo sapiens
US-09-875-338-13

Query Match 19.7%; Score 294.5; DB 10; Length 316;
Best Local Similarity 31.1%; Pred. No. 1.6e-17;
Matches 93; Conservative 40; Mismatches 111; Indels 55; Gaps 11;
QY 2 RLGSPG-----LLFLFSSLRADTQKEKVRAMVGSDELSCACPGSRFDLNDV 50
DB 4 RRGSPGMGVHVGALGALMFCLTGALVQVPEDPVVALVGTDTATLCCSFSPSPGSLAQL 63

DB 4 RRGSPGMGVHVGALGALMFCLTGALVQVPEDPVVALVGTDTATLCCSFSPSPGSLAQL 63
QY 51 YVWQTSSEKTVVTHIIPONSSLENVD--SRYNRALMSPAGMLRGDFSLRLFNVTPODE 108
DB 64 NLIMQULTDTRKQV-----HSPAEQDQGSAYANRTALFPDLAAGNASTLRQRRVADE 117
QY 109 QKFHCLVLSQSLGFQEVLSVEVTLHVANFVSVVPSVAPHSPOQ-----DELFTCTGSI 163
DB 118 GSFTCFVSIRDFG-----SAAVSLQVAAPYSKP--SMLEPKDKLRPDGDTVTITCSSYRG 170
QY 164 YPRPNVYW-----INKTDSLDDQALQNDTVFLNMRGLYDVSVLRIRATPSVINIGCCIE 218
DB 171 YPEAEVFWODGQGVPLTGAVTTTSQ-----MANEQGLFDVHSVLRVVLGANGTYSCLVR 223
QY 219 NVLLQQLTVSGQTGNDIGERDKITENPVSTGEKNAATWSILAVCLIVVAVAIGWYC 277
DB 224 NPVLQDD-AHGSVT-----ITGQPMTPFPE--ALMVTYGLSVCLIALVLAFAVC 270

RESULT 13
US-09-910-174A-24
Sequence 24, Application US/09910174A
Patent No. US20020106730A1
GENERAL INFORMATION:
APPLICANT: Coyle, Anthony J.
APPLICANT: Frazer, Christopher C.
APPLICANT: Manning, Stephen
TITLE OF INVENTION: B7-H2 Molecules, No. US20020106730A1 Members of the B7
FILE REFERENCE: 35800/236924
CURRENT APPLICATION NUMBER: US/09/910.174A
CURRENT FILING DATE: 2001-07-20
PRIOR APPLICATION NUMBER: US 09/620,461
PRIOR FILING DATE: 2000-07-20
NUMBER OF SEQ ID NOS: 32
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 24
LENGTH: 316
TYPE: PRF
ORGANISM: Homo sapiens
US-09-910-174A-24

Query Match 19.7%; Score 294.5; DB 10; Length 316;
Best Local Similarity 31.1%; Pred. No. 1.6e-17;
Matches 93; Conservative 40; Mismatches 111; Indels 55; Gaps 11;

QY 2 RLGSPG-----LLFLFSSLRADTQKEKVRAMVGSDELSCACPGSRFDLNDV 50
DB 4 RRGSPGMGVHVGALGALMFCLTGALVQVPEDPVVALVGTDTATLCCSFSPSPGSLAQL 63
QY 51 YVWQTSSEKTVVTHIIPONSSLENVD--SRYNRALMSPAGMLRGDFSLRLFNVTPODE 108
DB 64 NLIMQULTDTRKQV-----HSPAEQDQGSAYANRTALFPDLAAGNASTLRQRRVADE 117
QY 109 QKFHCLVLSQSLGFQEVLSVEVTLHVANFVSVVPSVAPHSPOQ-----DELFTCTGSI 163
DB 118 GSFTCFVSIRDFG-----SAAVSLQVAAPYSKP--SMLEPKDKLRPDGDTVTITCSSYRG 170
QY 164 YPRPNVYW-----INKTDSLDDQALQNDTVFLNMRGLYDVSVLRIRATPSVINIGCCIE 218
DB 171 YPEAEVFWODGQGVPLTGAVTTTSQ-----MANEQGLFDVHSVLRVVLGANGTYSCLVR 223
QY 219 NVLLQQLTVSGQTGNDIGERDKITENPVSTGEKNAATWSILAVCLIVVAVAIGWYC 277
DB 224 NPVLQDD-AHGSVT-----ITGQPMTPFPE--ALMVTYGLSVCLIALVLAFAVC 270

RESULT 14
US-09-875-338-11
Sequence 11, Application US/09875338
Patent No. US20020095024A1
GENERAL INFORMATION:
APPLICANT: MIKESSEL, GLEN E.

```
; APPLICANT: CHANG, HAN
; APPLICANT: FINGER, JOSHUA N.
; APPLICANT: YANG, GUCHEN
; APPLICANT: LU, PIN
; APPLICANT: ZHOU, XIA-DI
; APPLICANT: PEACH, ROBERT
; TITLE OF INVENTION: B7-RELATED NUCLEIC ACIDS AND POLYPEPTIDES USEFUL FOR
; FILE OF INVENTION: IMMUNOMODULATION
; FILE REFERENCE: 3053-4071US2
; CURRENT APPLICATION NUMBER: US/09/875,338
; CURRENT FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: 60/272,107
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/209,811
; PRIOR FILING DATE: 2000-06-06
; NUMBER OF SEQ ID NOS: 94
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 316
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-875-338-11

Query Match      19.6%; Score 293.5; DB 10; Length 316;
Best Local Similarity 31.1%; Pred. No. 2e-17;
Matches 93; Conservative 40; Mismatches 111; Indels 55; Gaps 11;
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QY 2 RLGPSG-----LLFLFPSSLRADTQEKVRAMVGSDELSCACPEGSRRFDLNDV 50
DB 4 RRGSPGMGVHGAALGALWFCITGALEVQVPEPPVVALVGTDTLRCFSPEPGFSLAQL 63
QY 51 YVWQTSSEKTVVTHIPQNSLENVD--SRYNRALMSPAGMLRGDFSLRLFNVTPODE 108
DB 64 NLIWQLTDTKQLV-----HSFTEGRDQGSAYANRTALFPDLLAQGNASRLQVRVADE 117
QY 109 QKPHCLVLSQSLGFQVLSVEVTLHVAANFSPVVSAPHSPSQ-----DELTFTCTTSING 163
DB 118 GSFTCFVSIRDFG-----SAAVSLQVAAPYSKP--SMTLEPNKDLRPGDVTITCPSYRG 170
QY 164 YPRPNVYW-----INKTNSLLDQALQNDTVFLNMRGLYDVVSVLRIARTPSVNI GCCIE 218
DB 171 YPEAEVFWQDGGQVPLTGNVTSQ-----MANEGGLEDFVHSLRVLVLGANGTYSCLVR 223
QY 219 NVLLQNLTVGSQTGNDIGERDKITENPVSTGEKNAATWSILAVLCLLVVVAIVAIGWVC 277
DB 224 NPVLQDD-AHGSVT-----ITQPMTFPPE--ALWVTVGLSVCLIALVALAFVC 270
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RESULT 15
US-09-915-789A-3
; Sequence 3, Application US/09915789A
; Patent No. US20020168762A1
; GENERAL INFORMATION:
; APPLICANT: Chen, Lieping
; TITLE OF INVENTION: B7-H3 AND B7-H4, NOVEL IMMUNOREGULATORY
; FILE OF INVENTION: MOLECULES
; FILE REFERENCE: 07039-219001
; CURRENT APPLICATION NUMBER: US/09/915,789A
; CURRENT FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 60/220,991
; PRIOR FILING DATE: 2000-07-27
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 316
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-915-789A-3
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Query Match 19.6%; Score 292.5; DB 9; Length 316;
Best Local Similarity 31.1%; Pred. No. 2.4e-17;
Matches 93; Conservative 39; Mismatches 112; Indels 55; Gaps 11;

GenCore version 5.1.3
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OM protein - protein search, using sw model

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Maximum DB seq length: 2000000000

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Listing first 45 summaries

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Published Applications AA:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	1393	100.0	302	9	US-09-896-738-13
2	1393	100.0	302	10	US-09-955-866-7
3	1393	100.0	309	10	US-09-910-174A-7
4	1392	99.9	302	9	US-09-915-789A-18
5	1392	99.9	343	10	US-09-764-853-630
6	1392	99.9	345	10	US-09-764-853-810
7	1388	99.6	302	10	US-09-789-561-136
8	1388	99.6	344	10	US-09-764-853-812
9	1219	87.5	241	9	US-09-915-789A-11
10	559.5	40.2	322	10	US-09-910-174A-29
11	271	19.5	316	9	US-09-915-789A-1
12	271	19.5	316	10	US-09-875-338-13
13	271	19.5	316	10	US-09-910-174A-24
14	270	19.4	316	10	US-09-875-338-11
15	270	19.4	387	10	US-09-789-561-156
16	270	19.4	534	10	US-09-875-338-7
17	269	19.3	316	9	US-09-915-789A-3
18	267.5	19.2	315	10	US-09-910-174A-28
19	267	19.2	316	9	US-09-978-295A-137

20	267	19.2	316	9	US-09-896-738-14	Sequence 14, Appl
21	267	19.2	316	9	US-09-978-697-137	Sequence 137, App
22	267	19.2	316	9	US-09-978-192A-137	Sequence 137, App
23	267	19.2	316	10	US-09-789-561-135	Sequence 135, App
24	267	19.2	316	10	US-09-955-866-8	Sequence 8, Appl
25	267	19.2	316	12	US-10-052-586-54	Sequence 54, Appl
26	250	17.9	698	10	US-09-875-338-9	Sequence 9, Appl
27	244	17.5	215	9	US-09-915-789A-20	Sequence 20, Appl
28	244	17.5	216	10	US-09-789-561-158	Sequence 158, App
29	182	13.1	329	10	US-09-303-510-6	Sequence 6, Appl
30	182	13.1	329	10	US-09-303-040-6	Sequence 6, Appl
31	179	12.8	526	9	US-09-896-738-19	Sequence 19, Appl
32	179	12.8	526	10	US-09-910-174A-9	Sequence 9, Appl
33	179	12.8	526	10	US-09-955-866-13	Sequence 13, Appl
34	169	12.1	309	10	US-09-837-867A-21	Sequence 21, Appl
35	169	12.1	314	10	US-09-837-867A-13	Sequence 13, Appl
36	164.5	11.8	288	8	US-08-592-711-2	Sequence 2, Appl
37	164.5	11.8	288	9	US-09-896-738-10	Sequence 10, Appl
38	164.5	11.8	288	9	US-09-915-789A-15	Sequence 15, Appl
39	164.5	11.8	288	10	US-09-772-102-14	Sequence 14, Appl
40	164.5	11.8	288	10	US-09-837-867A-19	Sequence 19, Appl
41	164.5	11.8	288	10	US-09-910-174A-5	Sequence 5, Appl
42	161	11.6	226	9	US-09-915-789A-21	Sequence 21, Appl
43	161	11.6	473	10	US-09-910-059-131	Sequence 131, App
44	161	11.6	492	10	US-09-845-889A-3	Sequence 3, Appl
45	159	11.4	323	9	US-09-896-738-11	Sequence 11, Appl

ALIGNMENTS

RESULT 1
US-09-896-738-13
Sequence 13, Application US/09896738
Patent No. US20020165347A1
GENERAL INFORMATION:
APPLICANT: Fox, Michael
APPLICANT: Sullivan, John K.
TITLE OF INVENTION: B7-Like Molecules and Uses Thereof
FILE REFERENCE: 00-513-A
CURRENT APPLICATION NUMBER: US/09/896,738
CURRENT FILING DATE: 2001-06-29
PRIOR APPLICATION NUMBER: 60/215,645
PRIOR FILING DATE: 2000-06-30
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 13
LENGTH: 302
TYPE: PRT
ORGANISM: Homo sapiens
US-09-896-738-13

Query Match	100.0%	Score 1393	DB 9	Length 302
Best Local Similarity	100.0%	Pred. No. 1.3e-112		
Matches 267	Conservative	0	Mismatches	0
			Indels	0
			Gaps	0
QY	1	EKEVRAMVGSDELSCACPEGRSFRDNDYVYVWQTSKTVVTHIPONSLENDYSRR	60	
DB	22	EKEVRAMVGSDELSCACPEGRSFRDNDYVYVWQTSKTVVTHIPONSLENDYSRR	81	
QY	61	NRAIMSPAGLRGDFSLRFLNVTVPQDEQKFCILVLSQSLGFEVLSEVTLVAAVFSVP	120	
DB	82	NRAIMSPAGLRGDFSLRFLNVTVPQDEQKFCILVLSQSLGFEVLSEVTLVAAVFSVP	141	
QY	121	VSAHPSPSDELTPFCTISNGYPRPNVYVWINKTNSLDDALONDYVFLNKGLYDVVS	180	
DB	142	VSAHPSPSDELTPFCTISNGYPRPNVYVWINKTNSLDDALONDYVFLNKGLYDVVS	201	
QY	181	VLAIRTPSVNICCCENYVLLQNLTVGSGTNDIGERDKITENPVSTGEKAAVTSILA	240	
DB	202	VLAIRTPSVNICCCENYVLLQNLTVGSGTNDIGERDKITENPVSTGEKAAVTSILA	261	

QY 241 VLCLLVVVAIVAGWVCRDRCLQHSYAG 267
Db 262 VLCLLVVVAIVAGWVCRDRCLQHSYAG 288

RESULT 2

US-09-955-866-7
; Sequence 7, Application US/09955866
; Patent No. US20020107363A1
; GENERAL INFORMATION:
; APPLICANT: Fox, Michael
; APPLICANT: Sullivan, John K.
; APPLICANT: Holst, Paige
; APPLICANT: Yoshinaga, Steven Kiyoshi
; TITLE OF INVENTION: B7-Like Polypeptides and Uses Thereof
; FILE REFERENCE: 00.759-A
; CURRENT APPLICATION NUMBER: US/09/955,866
; PRIOR FILING DATE: 2001-09-19
; PRIOR APPLICATION NUMBER: 60/233,867
; PRIOR FILING DATE: 2000-09-20
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 7
; LENGTH: 302
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-955-866-7

Query Match 100.0%; Score 1393; DB 10; Length 302;
Best Local Similarity 100.0%; Pred. No. 1.3e-112;
Matches 267; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EKEVRAMVGSDELSCACPEGRFDLNDVYVYVWQTSSEKTVVYTHIPQNSSLENVDSRYR 60
Db 22 EKEVRAMVGSDELSCACPEGRFDLNDVYVYVWQTSSEKTVVYTHIPQNSSLENVDSRYR 81
QY 61 NRALMSPAGMLRGDFSLRFLFNVTTPDEQKPHCLVLSQSLSGFOEVLSEVTLHVAANFSVP 120
Db 82 NRALMSPAGMLRGDFSLRFLFNVTTPDEQKPHCLVLSQSLSGFOEVLSEVTLHVAANFSVP 141
QY 121 VVSAPHSQSDELFTTCTTSINGYPRENVYVWINKTNSLLDQALQNDTVFLNMRGLYDVVS 180
Db 142 VVSAPHSQSDELFTTCTTSINGYPRENVYVWINKTNSLLDQALQNDTVFLNMRGLYDVVS 201
QY 181 VLRIARTPSVNIACCENVLQNLTVGSGTNDIGERDKITENPVSTGEKNAATWSILA 240
Db 202 VLRIARTPSVNIACCENVLQNLTVGSGTNDIGERDKITENPVSTGEKNAATWSILA 261
QY 241 VLCLLVVVAIVAGWVCRDRCLQHSYAG 267
Db 262 VLCLLVVVAIVAGWVCRDRCLQHSYAG 288

RESULT 3

US-09-910-174A-7
; Sequence 7, Application US/09910174A
; Patent No. US20020106730A1
; GENERAL INFORMATION:
; APPLICANT: Coyle, Anthony J.
; APPLICANT: Fraser, Christopher C.
; APPLICANT: Manning, Stephen
; TITLE OF INVENTION: B7-H2 Molecules, No. US20020106730A1el Members of the B7
; FILE REFERENCE: 35800/236924
; CURRENT APPLICATION NUMBER: US/09/910,174A
; PRIOR FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: US 09/620,461
; PRIOR FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 309
; TYPE: PRT

; ORGANISM: Homo sapiens
US-09-910-174A-7

Query Match 100.0%; Score 1393; DB 10; Length 309;
Best Local Similarity 100.0%; Pred. No. 1.4e-112;
Matches 267; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EKEVRAMVGSDELSCACPEGRFDLNDVYVYVWQTSSEKTVVYTHIPQNSSLENVDSRYR 60
Db 22 EKEVRAMVGSDELSCACPEGRFDLNDVYVYVWQTSSEKTVVYTHIPQNSSLENVDSRYR 81
QY 61 NRALMSPAGMLRGDFSLRFLFNVTTPDEQKPHCLVLSQSLSGFOEVLSEVTLHVAANFSVP 120
Db 82 NRALMSPAGMLRGDFSLRFLFNVTTPDEQKPHCLVLSQSLSGFOEVLSEVTLHVAANFSVP 141
QY 121 VVSAPHSQSDELFTTCTTSINGYPRENVYVWINKTNSLLDQALQNDTVFLNMRGLYDVVS 180
Db 142 VVSAPHSQSDELFTTCTTSINGYPRENVYVWINKTNSLLDQALQNDTVFLNMRGLYDVVS 201
QY 181 VLRIARTPSVNIACCENVLQNLTVGSGTNDIGERDKITENPVSTGEKNAATWSILA 240
Db 202 VLRIARTPSVNIACCENVLQNLTVGSGTNDIGERDKITENPVSTGEKNAATWSILA 261
QY 241 VLCLLVVVAIVAGWVCRDRCLQHSYAG 267
Db 262 VLCLLVVVAIVAGWVCRDRCLQHSYAG 288

RESULT 4

US-09-915-789A-18
; Sequence 18, Application US/09915789A
; Patent No. US20020168762A1
; GENERAL INFORMATION:
; APPLICANT: Chen, Lieping
; TITLE OF INVENTION: B7-H3 AND B7-H4, NOVEL IMMUNOREGULATORY
; FILE REFERENCE: 07039-219001
; CURRENT APPLICATION NUMBER: US/09/915,789A
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 60/220,991
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 302
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-915-789A-18

Query Match 99.9%; Score 1392; DB 9; Length 302;
Best Local Similarity 99.6%; Pred. No. 1.6e-112;
Matches 266; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 EKEVRAMVGSDELSCACPEGRFDLNDVYVYVWQTSSEKTVVYTHIPQNSSLENVDSRYR 60
Db 22 EKEVRAMVGSDELSCACPEGRFDLNDVYVYVWQTSSEKTVVYTHIPQNSSLENVDSRYR 81
QY 61 NRALMSPAGMLRGDFSLRFLFNVTTPDEQKPHCLVLSQSLSGFOEVLSEVTLHVAANFSVP 120
Db 82 NRALMSPAGMLRGDFSLRFLFNVTTPDEQKPHCLVLSQSLSGFOEVLSEVTLHVAANFSVP 141
QY 121 VVSAPHSQSDELFTTCTTSINGYPRENVYVWINKTNSLLDQALQNDTVFLNMRGLYDVVS 180
Db 142 VVSAPHSQSDELFTTCTTSINGYPRENVYVWINKTNSLLDQALQNDTVFLNMRGLYDVVS 201
QY 181 VLRIARTPSVNIACCENVLQNLTVGSGTNDIGERDKITENPVSTGEKNAATWSILA 240
Db 202 VLRIARTPSVNIACCENVLQNLTVGSGTNDIGERDKITENPVSTGEKNAATWSILA 261
QY 241 VLCLLVVVAIVAGWVCRDRCLQHSYAG 267
Db 262 VLCLLVVVAIVAGWVCRDRCLQHSYAG 288

RESULT 5
US-09-764-853-630
; Sequence 630, Application US/09764853
; Patent No. US20020090672A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: P206
; CURRENT APPLICATION NUMBER: US/09/764,853
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 939
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 630
; LENGTH: 343
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-764-853-630

Query Match 99.9%; Score 1392; DB 10; Length 343;
Best Local Similarity 99.6%; Pred. No. 1.9e-112;
Matches 266; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 EKEVRAMVGSDELSCACPEGRFDLNDVYYWQTSSEKTVYTHIPONSSLENDVSRXR 60
DB 63 EKEVRAMVGSDELSCACPEGRFDLNDVYYWQTSSEKTVYTHIPONSSLENDVSRXR 122
QY 61 NRAI MSPAGMLRGDFSLRFNVTPODEQKFCGLVLSQSLGFQEVLSVEVTLHVAANFSVP 120
DB 123 NRAI MSPAGMLRGDFSLRFNVTPODEQKFCGLVLSQSLGFQEVLSVEVTLHVAANFSVP 182
QY 121 VVSAPHSODELFTCTCSINGYPRPNVYWKTDNSLLDQALQNDTYFLNMRGLYDVVS 180
DB 183 VVSAPHSODELFTCTCSINGYPRPNVYWKTDNSLLDQALQNDTYFLNMRGLYDVVS 242
QY 181 VRIARTPSVNI GCCIENVLLOQNLTVGSQTGNDIGERDKITENPVSTGEKNAATWSILA 240
DB 243 VRIARTPSVNI GCCIENVLLOQNLTVGSQTGNDIGERDKITENPVSTGEKNAATWSILA 302
QY 241 VVCLLVVAVAIGWVCRDRCLOHSTAG 267
DB 303 VVCLLVVAVAIGWVCRDRCLOHSTAG 329

RESULT 6
US-09-764-853-810
; Sequence 810, Application US/09764853
; Patent No. US20020090672A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: P206
; CURRENT APPLICATION NUMBER: US/09/764,853
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 939
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 810
; LENGTH: 345
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-764-853-810

Query Match 99.9%; Score 1392; DB 10; Length 345;
Best Local Similarity 99.6%; Pred. No. 1.9e-112;
Matches 266; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 EKEVRAMVGSDELSCACPEGRFDLNDVYYWQTSSEKTVYTHIPONSSLENDVSRXR 60
DB 65 EKEVRAMVGSDELSCACPEGRFDLNDVYYWQTSSEKTVYTHIPONSSLENDVSRXR 124
QY 61 NRAI MSPAGMLRGDFSLRFNVTPODEQKFCGLVLSQSLGFQEVLSVEVTLHVAANFSVP 120

DB 125 NRAI MSPAGMLRGDFSLRFNVTPODEQKFCGLVLSQSLGFQEVLSVEVTLHVAANFSVP 184
QY 121 VVSAPHSODELFTCTCSINGYPRPNVYWKTDNSLLDQALQNDTYFLNMRGLYDVVS 180
DB 185 VVSAPHSODELFTCTCSINGYPRPNVYWKTDNSLLDQALQNDTYFLNMRGLYDVVS 244
QY 181 VRIARTPSVNI GCCIENVLLOQNLTVGSQTGNDIGERDKITENPVSTGEKNAATWSILA 240
DB 245 VRIARTPSVNI GCCIENVLLOQNLTVGSQTGNDIGERDKITENPVSTGEKNAATWSILA 304
QY 241 VVCLLVVAVAIGWVCRDRCLOHSTAG 267
DB 305 VVCLLVVAVAIGWVCRDRCLOHSTAG 331

RESULT 7
US-09-789-561-136
; Sequence 136, Application US/09789561
; Patent No. US2002064818A1
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 52 Human secreted proteins
; FILE REFERENCE: P2043P1
; CURRENT APPLICATION NUMBER: US/09/789,561
; CURRENT FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: PCT/US00/24008
; PRIOR FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: 60/152,317
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: 60/152,315
; PRIOR FILING DATE: 1999-09-03
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 136
; LENGTH: 302
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (128)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-789-561-136

Query Match 99.6%; Score 1388; DB 10; Length 302;
Best Local Similarity 99.6%; Pred. No. 3.6e-112;
Matches 266; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 EKEVRAMVGSDELSCACPEGRFDLNDVYYWQTSSEKTVYTHIPONSSLENDVSRXR 60
DB 22 EKEVRAMVGSDELSCACPEGRFDLNDVYYWQTSSEKTVYTHIPONSSLENDVSRXR 81
QY 61 NRAI MSPAGMLRGDFSLRFNVTPODEQKFCGLVLSQSLGFQEVLSVEVTLHVAANFSVP 120
DB 82 NRAI MSPAGMLRGDFSLRFNVTPODEQKFCGLVLSQSLGFQEVLSVEVTLHVAANFSVP 141
QY 121 VVSAPHSODELFTCTCSINGYPRPNVYWKTDNSLLDQALQNDTYFLNMRGLYDVVS 180
DB 142 VVSAPHSODELFTCTCSINGYPRPNVYWKTDNSLLDQALQNDTYFLNMRGLYDVVS 201
QY 181 VRIARTPSVNI GCCIENVLLOQNLTVGSQTGNDIGERDKITENPVSTGEKNAATWSILA 240
DB 202 VRIARTPSVNI GCCIENVLLOQNLTVGSQTGNDIGERDKITENPVSTGEKNAATWSILA 261
QY 241 VVCLLVVAVAIGWVCRDRCLOHSTAG 267
DB 262 VVCLLVVAVAIGWVCRDRCLOHSTAG 288

RESULT 8
US-09-764-853-812
; Sequence 812, Application US/09764853
; Patent No. US20020090672A1

```

; GENERAL INFORMATION:
; APPLICANT: Roen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PJ206
; CURRENT APPLICATION NUMBER: US/09/764,853
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 939
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 812
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (170)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-764-853-812

Query Match          99.6%; Score 1388; DB 10; Length 344;
Best Local Similarity 99.6%; Pred. No. 4.3e-112;
Matches 266; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 EKEVRAMVGSDELSCACPEGSRFDLNDVYVWQTSKTVVTHYHIPQNSSLENVDSRYR 60
DB 64 EKEVRAMVGSDELSCACPEGSRFDLNDVYVWQTSKTVVTHYHIPQNSSLENVDSRYR 123
QY 61 NRALMSPAGMLRGDFSLRFLNVTTPQDEQKPHCLVLSQSLGFQEVLSVEVTLHVAANFSVP 120
DB 124 NRALMSPAGMLRGDFSLRFLNVTTPQDEQKPHCLVLSQSLGFQEVLSVEVTLHVAANFSVP 183
QY 121 VVSAPHSPQDELFTFTCTTSINGYPRPNVYVWQTSKTVVTHYHIPQNSSLENVDSRYR 180
DB 184 VVSAPHSPQDELFTFTCTTSINGYPRPNVYVWQTSKTVVTHYHIPQNSSLENVDSRYR 243
QY 181 VLRIARTPSVNIACCENLVLLQNLTVGSGTNDIGERDKITENPVSTGKNAATWSILA 240
DB 244 VLRIARTPSVNIACCENLVLLQNLTVGSGTNDIGERDKITENPVSTGKNAATWSILA 303
QY 241 VLCLLVVVAIVAIGWVCRDCLQHSYAG 267
DB 304 VLCLLVVVAIVAIGWVCRDCLQHSYAG 330

RESULT 9
US-09-915-789A-11
; Sequence 11, Application US/09915789A
; Patent No. US20020168762A1
; GENERAL INFORMATION:
; APPLICANT: Chen, Lieping
; TITLE OF INVENTION: B7-H3 AND B7-H4, NOVEL IMMUNOREGULATORY MOLECULES
; FILE REFERENCE: 07039-219001
; CURRENT APPLICATION NUMBER: US/09/915,789A
; CURRENT FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 60/220,991
; PRIOR FILING DATE: 2000-07-27
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 241
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-915-789A-11

Query Match          87.5%; Score 1219; DB 9; Length 241;
Best Local Similarity 99.6%; Pred. No. 9.1e-98;
Matches 234; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 EKEVRAMVGSDELSCACPEGSRFDLNDVYVWQTSKTVVTHYHIPQNSSLENVDSRYR 60
DB 7 EKEVRAMVGSDELSCACPEGSRFDLNDVYVWQTSKTVVTHYHIPQNSSLENVDSRYR 66
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QY 61 NRALMSPAGMLRGDFSLRFLNVTTPQDEQKPHCLVLSQSLGFQEVLSVEVTLHVAANFSVP 120
DB 67 NRALMSPAGMLRGDFSLRFLNVTTPQDEQKPHCLVLSQSLGFQEVLSVEVTLHVAANFSVP 126
QY 121 VVSAPHSPQDELFTFTCTTSINGYPRPNVYVWQTSKTVVTHYHIPQNSSLENVDSRYR 180
DB 127 VVSAPHSPQDELFTFTCTTSINGYPRPNVYVWQTSKTVVTHYHIPQNSSLENVDSRYR 186
QY 181 VLRIARTPSVNIACCENLVLLQNLTVGSGTNDIGERDKITENPVSTGKNAAT 235
DB 187 VLRIARTPSVNIACCENLVLLQNLTVGSGTNDIGERDKITENPVSTGKNAAT 241

RESULT 10
US-09-910-174A-29
; Sequence 29, Application US/09910174A
; Patent No. US20020106730A1
; GENERAL INFORMATION:
; APPLICANT: Coyle, Anthony J.
; APPLICANT: Fraser, Christopher C.
; APPLICANT: Manning, Stephen
; TITLE OF INVENTION: B7-H2 Molecules, No. US20020106730A1 Members of the B7
; TITLE OF INVENTION: Family and Uses Thereof
; FILE REFERENCE: 35800/236924
; CURRENT APPLICATION NUMBER: US/09/910,174A
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: US 09/620,461
; PRIOR FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 322
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-910-174A-29

Query Match          40.2%; Score 559.5; DB 10; Length 322;
Best Local Similarity 46.2%; Pred. No. 6.3e-41;
Matches 127; Conservative 38; Mismatches 91; Indels 19; Gaps 7;

QY 1 EKEVRAMVGSDELSCACPEGSRFDLNDVYVWQTSKTVVTHYHIPQNSSLENVDSRYR 60
DB 47 ETEVGAMVGSNNVLSCLDIPRRHFNLSGLVYVWQIENPEVSVTVYLPYKSPGINVDSSYK 106
QY 61 NRALMSPAGMLRGDFSLRFLNVTTPQDEQKPHCLVLSQSLGFQEVLSVEVTLHVAANFSVP 119
DB 107 NRGLSLDSMKQGNFSLYLNVTTPQDTQETPCRVFMTATELVKILEEVVRLRVAANFST 166
QY 120 PVVSAPHSPQDELFTFTCTTSINGYPRPNVYVWQTSKTVVTHYHIPQNSSLENVDSRYR 177
DB 167 PVISTSDSNPQQ-ERTYTCMSKNGYPEPEPLYWINTDLSLIDTALQNNVTYLNKUGLYD 225
QY 178 VVSVLRIARTPSVNIACCENLVLLQNLTVGSGTNDIGERDKITENPVSTGKNA 233
DB 226 VISTRLPWTSGDVLCCVENVALHQNITISQAESFTGNN-----TKNPQETHNEL 278
QY 234 ATWSILAVLCLLVVVAIVAIGWVCRDCLQHSYAG 267
DB 279 ---KVLVPEVLAVLAAAFVSVFIYRTRPHRSYTG 310

RESULT 11
US-09-915-789A-1
; Sequence 1, Application US/09915789A
; Patent No. US20020168762A1
; GENERAL INFORMATION:
; APPLICANT: Chen, Lieping
; TITLE OF INVENTION: B7-H3 AND B7-H4, NOVEL IMMUNOREGULATORY MOLECULES
; FILE REFERENCE: 07039-219001
; CURRENT APPLICATION NUMBER: US/09/915,789A
; CURRENT FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 60/220,991
```

PRIOR FILING DATE: 2000-07-27
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1
LENGTH: 316
TYPE: PRF
ORGANISM: Homo sapiens
US-09-915-789A-1

Query Match 19.5%; Score 271; DB 9; Length 316;
Best Local Similarity 31.3%; Pred. No. 3.8e-16;
Matches 84; Conservative 39; Mismatches 101; Indels 44; Gaps 10;

QY 1 EKEVRAMGSDVELSCACPEGRFDLNDVYVYQTSKTVVTHIPONSSLENVD--SR 58
DB 35 EDPVALVGTDTATLCCSPSPGFSIAQLNIWQITDKQLV-----HSPAEQDQCSA 88
QY 59 YNRNALMSPAGMLRGDFSLRLFNVTPODEQKHCLVLSQSIFQEVLSVEYTLHVAANFS 118
DB 89 YANRTALFPDLIAQGNASRLQVRVADBSGFTCFVSIRDFG-----SAAVSLQVAAAYS 143
QY 144 KP--SWTLEPNKDLRPGDTVITTCSSYRGYPBAEVFMQDGGVPLTGVTTSQ----- 194
QY 169 FLNMRGLYDVSVLRIRTPSVNIGCCLENVLQONLTVSGTGNDIGERDKITENPVST 228
DB 195 MANEQGLFDVHSVLRVVGANGTYSCLVRNPVLQOD-AHGSVT-----ITGQPMTE 244
QY 229 GEKNATWSILAVLCILVVAVAIGMVC 256
DB 245 PPE--ALMWTGSLVCLIALVLAFAVC 270

RESULT 12

US-09-875-338-13
Sequence 13, Application US/09875338
Patent No. US20020095024A1

GENERAL INFORMATION:
APPLICANT: MIKESSELL, GLEN E.
APPLICANT: CHANG, HAN
APPLICANT: FINGER, JOSHUA N.
APPLICANT: YANG, GUCHEN
APPLICANT: LU, PIN
APPLICANT: ZHOU, XIA-DI
APPLICANT: PEACH, ROBERT
TITLE OF INVENTION: B7-RELATED NUCLEIC ACIDS AND POLYPEPTIDES USEFUL FOR
TITLE OF INVENTION: IMMUNOMODULATION
REFERENCE: 3053-4071US2
CURRENT APPLICATION NUMBER: US/09/875,338
CURRENT FILING DATE: 2001-06-06
PRIOR APPLICATION NUMBER: 60/272,107
PRIOR FILING DATE: 2001-02-28
PRIOR APPLICATION NUMBER: 60/209,811
PRIOR FILING DATE: 2000-06-06
NUMBER OF SEQ ID NOS: 94
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 13
LENGTH: 316
TYPE: PRF
ORGANISM: Homo sapiens
US-09-875-338-13

Query Match 19.5%; Score 271; DB 10; Length 316;
Best Local Similarity 31.3%; Pred. No. 3.8e-16;
Matches 84; Conservative 39; Mismatches 101; Indels 44; Gaps 10;

QY 1 EKEVRAMGSDVELSCACPEGRFDLNDVYVYQTSKTVVTHIPONSSLENVD--SR 58
DB 35 EDPVALVGTDTATLCCSPSPGFSIAQLNIWQITDKQLV-----HSPAEQDQCSA 88
QY 59 YNRNALMSPAGMLRGDFSLRLFNVTPODEQKHCLVLSQSIFQEVLSVEYTLHVAANFS 118

DB 89 YANRTALFPDLIAQGNASRLQVRVADBSGFTCFVSIRDFG-----SAAVSLQVAAAYS 143
QY 119 VPVSAHPSPQ-----DELFTCTSSINGYPRPNVY-----INKTNSLDDQALQNDTV 168
DB 144 KP--SWTLEPNKDLRPGDTVITTCSSYRGYPBAEVFMQDGGVPLTGVTTSQ----- 194
QY 169 FLNMRGLYDVSVLRIRTPSVNIGCCLENVLQONLTVSGTGNDIGERDKITENPVST 228
DB 195 MANEQGLFDVHSVLRVVGANGTYSCLVRNPVLQOD-AHGSVT-----ITGQPMTE 244
QY 229 GEKNATWSILAVLCILVVAVAIGMVC 256
DB 245 PPE--ALMWTGSLVCLIALVLAFAVC 270

RESULT 13

US-09-910-174A-24
Sequence 24, Application US/09910174A
Patent No. US20020106730A1

GENERAL INFORMATION:
APPLICANT: Coyle, Anthony J.
APPLICANT: Frazer, Christopher C.
APPLICANT: Manning, Stephen
TITLE OF INVENTION: B7-H2 Molecules, No. US20020106730A1 Members of the B7
FILE REFERENCE: 35800/236924
CURRENT APPLICATION NUMBER: US/09/910,174A
CURRENT FILING DATE: 2001-07-20
PRIOR APPLICATION NUMBER: US 09/620,461
PRIOR FILING DATE: 2000-07-20
NUMBER OF SEQ ID NOS: 32
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 24
LENGTH: 316
TYPE: PRF
ORGANISM: Homo sapiens
US-09-910-174A-24

Query Match 19.5%; Score 271; DB 10; Length 316;
Best Local Similarity 31.3%; Pred. No. 3.8e-16;
Matches 84; Conservative 39; Mismatches 101; Indels 44; Gaps 10;

QY 1 EKEVRAMGSDVELSCACPEGRFDLNDVYVYQTSKTVVTHIPONSSLENVD--SR 58
DB 35 EDPVALVGTDTATLCCSPSPGFSIAQLNIWQITDKQLV-----HSPAEQDQCSA 88
QY 59 YNRNALMSPAGMLRGDFSLRLFNVTPODEQKHCLVLSQSIFQEVLSVEYTLHVAANFS 118
DB 89 YANRTALFPDLIAQGNASRLQVRVADBSGFTCFVSIRDFG-----SAAVSLQVAAAYS 143
QY 119 VPVSAHPSPQ-----DELFTCTSSINGYPRPNVY-----INKTNSLDDQALQNDTV 168
DB 144 KP--SWTLEPNKDLRPGDTVITTCSSYRGYPBAEVFMQDGGVPLTGVTTSQ----- 194
QY 169 FLNMRGLYDVSVLRIRTPSVNIGCCLENVLQONLTVSGTGNDIGERDKITENPVST 228
DB 195 MANEQGLFDVHSVLRVVGANGTYSCLVRNPVLQOD-AHGSVT-----ITGQPMTE 244
QY 229 GEKNATWSILAVLCILVVAVAIGMVC 256
DB 245 PPE--ALMWTGSLVCLIALVLAFAVC 270

RESULT 14

US-09-875-338-11
Sequence 11, Application US/09875338
Patent No. US20020095024A1

GENERAL INFORMATION:
APPLICANT: MIKESSELL, GLEN E.
APPLICANT: CHANG, HAN
APPLICANT: FINGER, JOSHUA N.
APPLICANT: YANG, GUCHEN
APPLICANT: LU, PIN

```

; APPLICANT: ZHOU, XIA-DI
; APPLICANT: PEACH, ROBERT
; TITLE OF INVENTION: B7-RELATED NUCLEIC ACIDS AND POLYPEPTIDES USEFUL FOR
; TITLE OF INVENTION: IMMUNOMODULATION
; FILE REFERENCE: 3053-4071US2
; CURRENT APPLICATION NUMBER: US/09/875,338
; CURRENT FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: 60/272,107
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/209,811
; PRIOR FILING DATE: 2000-06-06
; NUMBER OF SEQ ID NOS: 94
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 316
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-875-338-11

Query Match      19.4%; Score 270; DB 10; Length 316;
Best Local Similarity 31.3%; Pred. No. 4.6e-16;
Matches 84; Conservative 39; Mismatches 101; Indels 44; Gaps 10;

QY   1 EKEVRAMGSDVELSCACPEGSRFDLNDVYVYVWQTSSEKTVVYTHIPONSLENVD--SR 58
DB   35 EDPVALVGTDTALRCSPFSGFSLTQLNLWQLTDTKQLV-----HSFTEGRDQSA 88

QY   59 YRNRALMSPAGMLRGDFSLRLFNVTTPQDEQKFKHCLVLSQSGLGFQEVLSVEVTLHVAANFS 118
DB   89 YANRTALFPDLLAQGNASLRLQVRVVADEGSFTCFVSIRDVG-----SAAVSLQVAAPYS 143

QY   119 VPVVSAPHSPSQ-----DELTTCTTSINGYPRPNVYW-----INKTDSLLDQALQNDTV 168
DB   144 KP--SMTLEPNKDLRPGDVTITCSSYRGYPEAEVFWQDGGVPLTGNVTTSQ----- 194

QY   169 FLNMRGLYDVWSVLRIARTPSVNIQCIENVLQQNLTVGSOTGNDIGERDKITENPVST 228
DB   195 MANEQGLFDVHSLRVLVGANGTYSCLVRNPVLQQD-AHGSVT-----ITGQPMTF 244

QY   229 GEKNAATWSILAVLCLLVVVAIVAGWVC 256
DB   245 PPE--ALWVTVGLSVCLIALVALAFVC 270

RESULT 15
US-09-789-561-156
; Sequence 156, Application US/09789561
; Patent No. US20020064818A1
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 52 Human secreted proteins
; FILE REFERENCE: PZ043P1
; CURRENT APPLICATION NUMBER: US/09/789,561
; CURRENT FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: PCT/US00/24008
; PRIOR FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: 60/152,317
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: 60/152,315
; PRIOR FILING DATE: 1999-09-03
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 156
; LENGTH: 387
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-789-561-156

Query Match      19.4%; Score 270; DB 10; Length 387;
Best Local Similarity 31.3%; Pred. No. 6e-16;
Matches 84; Conservative 39; Mismatches 101; Indels 44; Gaps 10;

QY   1 EKEVRAMGSDVELSCACPEGSRFDLNDVYVYVWQTSSEKTVVYTHIPONSLENVD--SR 58
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DB   106 EDPVALVGTDTALRCSPFSGFSLTQLNLWQLTDTKQLV-----HSFTEGRDQSA 159
QY   59 YRNRALMSPAGMLRGDFSLRLFNVTTPQDEQKFKHCLVLSQSGLGFQEVLSVEVTLHVAANFS 118
DB   160 YANRTALFPDLLAQGNASLRLQVRVVADEGSFTCFVSIRDVG-----SAAVSLQVAAPYS 214
QY   119 VPVVSAPHSPSQ-----DELTTCTTSINGYPRPNVYW-----INKTDSLLDQALQNDTV 168
DB   215 KP--SMTLEPNKDLRPGDVTITCSSYRGYPEAEVFWQDGGVPLTGNVTTSQ----- 265
QY   169 FLNMRGLYDVWSVLRIARTPSVNIQCIENVLQQNLTVGSOTGNDIGERDKITENPVST 228
DB   266 MANEQGLFDVHSLRVLVGANGTYSCLVRNPVLQQD-AHGSVT-----ITGQPMTF 315
QY   229 GEKNAATWSILAVLCLLVVVAIVAGWVC 256
DB   316 PPE--ALWVTVGLSVCLIALVALAFVC 341
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Search completed: December 18, 2002, 07:08:45
Job time : 43.927 secs